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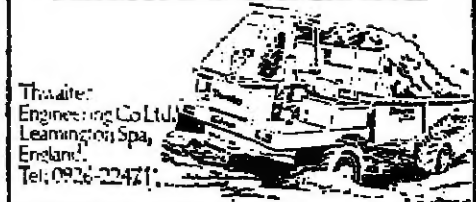
FINANCIAL TIMES

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***15p

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NEWS SUMMARY

GENERAL

Moro: 'not much time'

The kidnappers of Sig. Aldo Moro, the former Italian Premier, last night demanded the release of "all Communist prisoners" and a letter, apparently written by their captive, called for an exchange of prisoners.

In the letter, apparently appealing to Italian leaders to secure his release, Sig. Moro said there was not much time left.

But Sig. Giulio Andreotti, Premier, told Parliament that he rejected any form of blackmail by the Red Brigades guerrillas who abducted Sig. Moro on March 16 and killed his five guards. Meanwhile, 16 suspected neo-fascists, accused of a bomb attack on an anti-fascist rally in 1974 in which eight people were killed and 100 injured, went on trial in Brescia.

Ceciv sees more hope for a Cyprus settlement

Mr. Bulent Ecevit, Turkish Premier, indicated that the Congressional repeal of the U.S. arms embargo on Turkey would facilitate a Cyprus settlement and ease the problems between his country and Greece. In Nicosia a formal protest was delivered to the U.S. Charge d'Affaires expressing fears that such action would make Turkey "more intransigent" on Cyprus. Meanwhile, a Cyprus court sentenced two Palestinians to hang for the murder of Mr. Y. Sibat, a close friend of President Sadat of Egypt. Back Page

Rhodesia hearing for outside plan

Anglo-U.S. emissaries, striving to put together an overall peace plan for Rhodesia, will be given a hearing by the country's new multiracial coalition. Government when they arrive in Salisbury towards the end of this week. However, members of the Supreme Council emphasised that there could be no question of negotiating the internal black majority rule agreement. Patriotic Front to consider plan Page 4

Yard warns on parcel bombs

Scotland Yard issued an urgent warning after two parcel bombs were delivered to London addresses. A man was hurt when the first of the devices exploded at the Communist Party's headquarters in Covent Garden.

Roads review

The Government sought yesterday in two White Papers to appease opponents of its handling of inquiries into trunk road schemes and to present a scaled-down road building programme in England for the next 10 years. Back Page 7; Editorial comment, Page 16

Soviet pledge

The Soviet Union has pledged full support for Palestinian guerrillas who refuse to turn over their positions in south Lebanon to UN troops. It was reported in Beirut. U.S. military team in Beirut Page 4

Briefly...

Mr. David Holmes, a former Liberal Party deputy treasurer, was last night still at Bristol police station after a day of interviews about an alleged murder plot.

M. Raymond Barre, French Premier, is to announce the new Government to-day.

The Duke and Duchess of Kent have postponed their May visit to New Zealand because the Duchess may soon require surgery.

Mr. Rocky Aoki, 38, the Japanese entrepreneur and former Olympic wrestler, said in London that he hopes to buy the Grand National course at Aintree and Red Rum.

BUSINESS

Equities up 5.3; Pound firmer

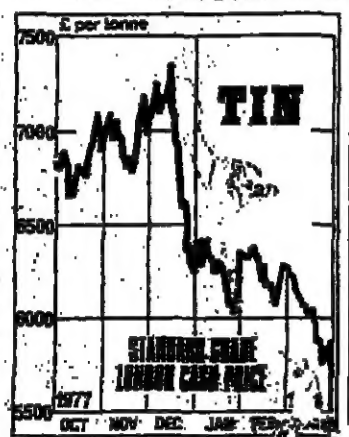
● EQUITIES attracted brisk business on bid speculation and a long list of trading statements. The FT ordinary index closed 5.3 up at 467.8.

● GILTS gave up early gains in response to the banking figures and in expectation of criticism of the handling of money supply. The Government Securities index closed 0.02 down at 73.34.

● STERLING and the dollar were firmer, and the pound rose sharply in late trading to \$1.6695, for a rise of 15 points. Its trade-weighted index rose to 62.0 (61.8) and the dollar's depreciation narrowed to 6.27 per cent. (6.50).

● GOLD fell \$23 to \$1791 on nervous selling in New York.

● TIN prices fell below the International Tin Agreement ceiling for the first time since January 1977 in Penang, and on



the London market, standard cash tin price closed \$55 down at \$5,590 a tonne.

● WALL STREET was 2.25 up at 793.29, just before the close.

● ELECTRICITY supply industry reorganisation plans, now set out in the White Paper, have been criticised as being too ambitious by power union leaders, who say that the Government has thrown away its chance of changing the industry. Back and Page 8

● HONG KONG AND SHANGHAI BANK is near agreement over the acquisition of a large portion of the equity of the Marine Midland Bank of New York. Back Page

● GKN has appealed to West Germany's economics minister to overturn the decision by the Supreme Court blocking its bid for the Sachs Group. The U.K. company reports profits for 1977 of \$72.3m, down on last year's \$97.7m, on turnover up at \$1,640m. (L1,640m). Back and Page 3

● CBILE is negotiating three loans from international banking sources worth \$350m. Back Page

● DUTCH FINANCE Minister, at the opening of the European Options Exchange in Amsterdam, said he did not object to risk-taking involved in the participants' appreciation and could bear the risk. Page 4

Pay concession to engineers

● EMPLOYERS of lower-paid engineering workers will be allowed to breach Government pay guidelines without risk of sanction, replied the Employment Secretary has said. Back Page

● PHARMACEUTICAL INDUSTRY profits will be subject to a new price regulation scheme which comes into force this week. Page 3

● U.K. NATIONALISED industries have won more than £286m worth of new export orders since January.

COMPANIES

● THOMAS JOURDAN pre-tax profits fell to \$0.5m. (\$607,590) for the whole of 1977, in spite of a slight rise at half time. Page 31

Carter may delay neutron bomb in disarmament bid

BY DAVID BELL: WASHINGTON, April 4

President Carter appears to have decided to rule out early production of the neutron bomb—and may favour cancelling it altogether—to set the stage for a breakthrough in the strategic arms limitations talks (SALT) and a possible meeting next month with President Brezhnev of the Soviet Union.

The White House refused to comment today on reports that, against the advice of most of his top advisers, the President has decided to scrap the weapon which is designed to kill people with radiation while causing relatively little damage to property.

A spokesman would say only that "a decision is still pending with the President."

The neutron bomb, which is opposed by the Soviet Union, has been a subject of hot debate within NATO for some months. The U.S. argued that it could not go ahead with production until its European allies, in whose countries it would be deployed, approved it.

Some of its NATO partners, sensitive to the political position that it arouses, would have preferred the U.S. to come out firmly in favour of the weapon first.

U.S. officials recognise that both Chancellor Helmut Schmidt, of West Germany, and Mr. James Callaghan, the Prime Minister, have been moving at considerable political risk, towards publicly endorsing the bomb, if only as a bargaining counter in arms control talks. They also concede that they have been operating on

the assumption that Mr. Carter would approve the weapon if they wanted to deploy it.

Today's New York Times said the President has already decided to scrap the weapon principally because it contradicts his often stated commitment to nuclear disarmament. According to the paper, Administration officials believe that there is only a slim

chance that Mr. Carter may now change his mind.

Other reports indicated that the decision not to go ahead with the bomb now may not be so final when and if it is announced later this week. Some sources said that Mr. Carter is holding up the bomb as a gesture to the Soviet Union and that this is part of a wider diplomatic offensive now starting.

Mr. Vance is due to fly to Moscow in two weeks' time to try to make further progress in the SALT talks which have been

becoming for some months. The U.S. hope is that this "bomb" would open the way for President Brezhnev and Carter to meet in early May, but even if it does not there is the possi-

bility that they could meet at the IN disarmament conference due to be held on May 23 in New York.

Malcolm Rutherford writes: The British Government is seeking urgent clarification from Washington. The report came as a surprise in Whitehall, which had believed that a decision to approve the production and eventual deployment of the weapon was likely to be taken at the meeting of the Nato Nuclear Planning Group in Denmark later this month.

The only qualification was that attempts might be made to bargain deployment of the bomb in return for restrictions on the Soviet SS-20, a continental-range rocket capable of inflicting major damage on West European cities.

Mr. Callaghan, who frequently linked the neutron bomb and the SS-20, in the Commons. Mr. Callaghan denied a television report that the Government had already come down in favour of the bomb, but was clearly relieved not to be asked about the report in the New York Times.

"As regards the neutron bomb," he said, "it is a question of weighing the very substantial political disadvantages against whatever military advantage may be presumed to exist."

£115m. for Rolls Royce in Pan Am TriStar deal

BY MICHAEL DONNE, AEROSPACE CORRESPONDENT

PAN AMERICAN Airways, one of the two major U.S. international airlines, is to buy 12 long-range Lockheed TriStar

airliners with Rolls-Royce RB-211 engines, worth in all over \$250m.

Rolls-Royce's share, including spares, will be about £115m. In addition, Pan Am will take options on another 14 aircraft. If converted into firm orders, these will be worth another £290m, with Rolls-Royce gaining about £145m of the total value.

The deal is a major breakthrough for Rolls-Royce into one of the world's biggest and most important airlines which has traditionally ordered American aircraft and engines. It also gives a much needed boost to the hitherto sluggish sales of the Lockheed TriStar.

At the same time, it represents a major success for Sir Kenneth Keith, chairman of Rolls-Royce, who has made many visits to the U.S. over the last 12 months

in an effort to win the contract for his company.

The first of the Rolls-powered TriStars for Pan American will be delivered in 1980 entering service in April of that year.

Rolls-Royce and Pan American have agreed in principle that finance for the deal will be arranged through the U.K. Export Credit Guarantee and First National City Bank of New York using a combination of institutional and bank funds.

When the Government took over the financing of the RB-211 in 1971 after the collapse of the original Rolls-Royce company, a loss on the engine of anything between £20m. and £40m. was predicted.

In fact, gross profits have already amounted to £34m., although various price warranties contracted by the former Rolls-Royce company reduce this by £20m.

Announcing the deal in New York yesterday after a Pan-Am Board meeting, Mr. William T. Seawell, the airline's chairman, said Pan Am had spent 18 months on a thorough evaluation of new types of equipment, comprising all possible combinations of aircraft and engines. These included the General Electric CF6-50 series, and the Pratt and Whitney JP-9D engines.

"As a result of this, we have chosen the TriStar, and we have selected the RB-211 engines because of the technological superiority," he said.

The initial order is for the Dash 524 B version of the RB-211 engine, giving 48,000 lbs thrust at take-off. This is a more powerful version of the original RB-211 engine which is already in service with earlier versions of the TriStar.

BANKING FIGURES ENCOURAGING FOR BUDGET

Money supply growth slower last month

BY MICHAEL BLANDEN

THE GROWTH of the money supply slowed last month to levels more in line with the Government's target range of 9-13 per cent. for the current financial year.

The banking figures published yesterday provided an encouraging pointer ahead of next week's Budget, when Mr. Denis Healey is expected to announce new monetary targets for the coming year on a three or six month rolling basis.

After the sharp growth in earlier months, it will still be very difficult for the Government to meet its targets for the year to mid-April.

This continues to cause concern in the City, with the gilt-

sterling M3 had risen in the first ten months to February by about 12 per cent., equivalent to an annual rate of some 14½ per cent.

Last month's figures are the last to appear before the Budget—the full money stock statistics for the period will themselves not be published until two days later.

They indicate that the growth of sterling M3 is likely to have been significantly lower than the rises of 2.3 per cent. and 1.1 per cent. recorded in the preceding two months.

The slow-down last month seems to have reflected two main factors, the absence of the inflows from abroad which had a substantial impact, particularly in January, and a relatively slow growth of bank lending to the domestic private sector.

The main pointer is given by the eligible liabilities of the banking sector. These are their main deposit funds and an important constituent of the money stock, though they are subject to a number of adjustments including those for seasonal influences.

The eligible liabilities rose by 0.8 per cent. in the four weeks to mid-March to £42.6bn., compared with an increase of 1.4 per cent. in the previous month.

Figures published by the London clearing banks showed that their sterling lending to the U.K. private sector rose by only £79m. during the month, mainly in the services sector.

With little change expected on seasonal grounds, this suggests a rate of increase substantially below the underlying rises of about £200m. which have been recorded in recent periods.

Sterling deposits by the U.K. private sector rose by £372m., and there was a fairly sizeable increase after allowing for seasonal factors.

Table, Page 8
Editorial comment, Page 16

edged market yesterday reacting with disappointment after the appearance of the figures which it had hoped would show a greater improvement.

There was also uncertainty in the discount market, with some speculation on a possible rise in the official minimum lending rate on Friday.

The figures coincided with a strong warning on excessive monetary growth by Mr. Gordon Pepper of stockbrokers W. Greenwell. In a special monetary bulletin, he argued that further action was needed to bring the situation under control and added: "We await the Budget."

He pointed out that the main monetary measure, sterling money stock on the wider definition (M3) had been growing at a rate of 18 per cent. a year over the six months to February, and other measures showed higher rates of increase. These gave "serious cause for concern."

Lords vote for Scots PR

BY IVOR OWEN, PARLIAMENTARY STAFF

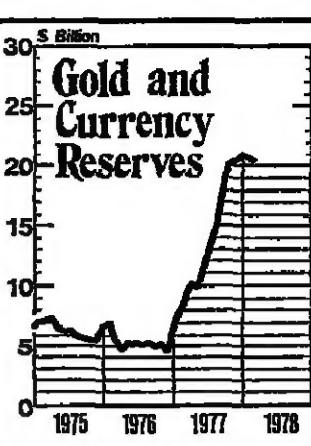
BY A majority of 91 the House of Lords last night voted for the general recognition that the Bill for additional member system of proportional representation to form—with the traditional first-past-the-post voting system—when it is returned to the Commons in June or July.

The decision was taken against the advice of the Government and is contrary to an earlier decision in the Commons that the introduction of proportional representation for the Scottish Parliament should be the thin end of the wedge opening the way for its general application throughout the U.K., clearly influenced a large number of the supporters of proper-

tional representation, there was a general recognition that the Bill for additional member system of proportional representation to form—with the traditional first-past-the-post voting system—when it is returned to the Commons in June or July.

A powerful speech by Lord Halsbury, in which he disavowed suggestions that the introduction of proportional representation for the Scottish Parliament should be the thin end of the wedge opening the way for its general application throughout the U.K., clearly influenced a large number of the supporters of proper-

Parliament, Page 10



Reserves fall \$381m.

By Peter Riddell, Economics Correspondent

THE underlying level of Britain's official reserves fell last month for the first time since May, 1977.

The reserves total fell by \$381m. during March to \$26,470m. After adjusting for repayments of foreign currency debt and some small-scale new borrowing by public-sector bodies, the underlying decline was \$281m.

This was in noticeable contrast to the underlying inflow of between \$230m. and \$260m. in each of the previous three months.

While not too much should be read into the exact figures because of variations in official transactions affecting the reserves, the change of direction in highlighting the change in the market view of sterling.

The announcement of the March figures by the Treasury yesterday afternoon led to a fall in the pound to its day's low of \$1.6620, before a later recovery to \$1.6695, up 15 points overall. The trade-weighted index closed 0.2 higher at 62.0.

The decline in the reserves would have been even larger but for the fact that the books were closed on the March figures on Tuesday evening last week.

This was well before the Bank of England intervened in an undisciplined manner to hold the rate and signal that the recent sharp decline had gone far enough.

By Friday evening, the trade-weighted index had dropped by 3½ per cent. in just over a week.

The authorities have been keen to remove any market speculation about official confidence.

Continued on Back Page

\$ in New York

	April 3	Previous
Spot	\$1.6640-\$560	\$1.6630-\$1,6440
1 month	0.02-0.02 1/2 premium	0.03 1/2-0.03 premium
3 months	0.11-0.05 1/2 discount	0.08-0.02 discount
12 months	0.90-0.75 discount	0.85-0.70 discount

CHIEF PRICE CHANGES YESTERDAY

Prices in pence unless otherwise indicated)		Rises		Falls	
Assed. Dairies	222 + 10	Stock Conversion	230 + 6	Grattan Warehouses	122 - 7
Boots	217 + 4	Talbot	251 + 23	Waggon Finance	87 - 3
Bowater	193 + 5	Turner and Newall	191 + 8	Conn. Gold Fields	180 - 6
British Home Stores	178 + 5	Unilever	510 + 8	De Beers Dfd.	332 - 5
Combs, Eng. Stores	82 + 4	Vickers	179 + 4		
Cullen's A	93 + 7	WGL	98 + 4		
Devy Intnl.	219 + 5	Welf Group	120 + 6		
Estates Prop. Inv.	94 + 4	Wigfall (H.)	120 + 6		
Finis	343 + 10	Wilkinson Match	168 + 5		
Hambro Life	302 + 15	Yarrow	270 + 5		
Hurst (C.)	93 + 7	Oil Exploration	206 + 8		
ICI	352 + 4	Castlefield	183 + 6		
McNeill Group	278 + 4	Guthrie	248 + 5		
Merchandise	278 + 4	Jokal	280 + 8		
Mills Allen Intnl.	172 + 10	Longhorne	280 + 8		
News Intnl.	267 + 5				
Reed Intnl.	114 + 4				
Savoy A	78 + 4				

U.K. launch for aspirin rival

BY DAVID FISHLOCK, SCIENCE EDITOR

A NEW pain-killing drug launched yesterday as an alternative to aspirin but claimed to be without the latter's side-effects could provide Britain with exports of £200m. over the next decade, according to its U.S. manufacturers.

The drug, Dolobid, is to be produced in the U.K. for the world market by Merck, Sharp and Dohme, which ranks second to Hoechst of West Germany in world pharmaceutical sales.

It is one of the first times that a foreign pharmaceutical company has chosen Britain from which to launch a major drug.

Dolobid will be manufactured at a £15m. plant now under construction at the Ponders End factory in North London of Merck's U.K. subsidiary, Thomas Monson. The group's U.K. exports last year totalled £26.5m, 35 per cent. of its British turnover.

In addition to the £15m. plant, another £5m. is estimated to have been spent by Merck in preparing for an international launch.

The plant is expected to be on stream late this year and, according to Mr. Bernard Crowley, chairman of Monson, should not need any expansion for four to five years.

Merck synthesised Dolobid in a deliberate attempt to make an aspirin-like substance free from the side-effects of aspirin in high doses.

Dolobid won the approval of the Committee on the Safety of Medicine late last year on the basis of clinical studies which had shown it to be about four times as potent as aspirin, to have an analgesic action that lasted for eight to 12 hours, but it is claimed, to cause less gastric bleeding and other problems.

Dolobid will cost the National Health Service about £4.10 for 50 tablets of 250mg. compared with about 13p for 50 tablets of aspirin. But it is available on prescription only and, according to Dr. Lewis Sarett, Merck's senior vice-president responsible for the group's \$50m. science and technology programme, is likely to remain so for several years at least.

Dr. Sarett said that Merck was encouraged to pursue the drug in 1953 by a U.S. critic of cortisone—then widely seen as a "miracle drug"—because of its adverse effects in treatment of chronic rheumatism and arthritis. The company experienced a major setback when its first promising discovery also proved to have aspirin-like side effects.

As a result, the quest for Dolobid had taken about 24 years. The first patents on the drug will expire in about six years' time.

Curing a giant headache Page 12

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France moves to prevent new Euratom treaty talks

BY GUY DE JONQUIERES, COMMON MARKET CORRESPONDENT

LUXEMBOURG, April 4.

FRANCE today prevented the EEC from replying to a U.S. demand that the Community should agree to renegotiate the Euratom Nuclear Supply Treaty or face immediate suspension of further deliveries of U.S. enriched uranium.

All EEC governments are prepared to comply with the demand except France, whose acting Foreign Minister, M. Louis Giscard d'Estaing, insisted today that the matter must be decided by EEC Heads of Government at their European Council meeting in Copenhagen at the end of this week.

The Copenhagen summit would be the last possible opportunity for the EEC if it is to meet the provisions of the Nuclear Proliferation Act, recently approved by the U.S. Congress. This calls on the Community to signal its willingness to renegotiate the supply arrangements by next Sunday at the latest.

If no reply were given by then, the U.S. Nuclear Regulatory Commission would be required by law to stop issuing new export licences for shipments of enriched uranium to the EEC, which has only about one month's supply of U.S. fuel.

An interruption of any length would have a severe effect on

the commercial nuclear industry in the EEC which depends on the U.S. for virtually all its supplies of highly enriched uranium and for almost half of its normally enriched uranium, used in power stations. Much of the remainder is supplied by the Soviet Union.

Herr Helmut Schmidt, the West German Chancellor, who is understood to be seriously concerned about the risk of a cut-off, is reported to have urged President Giscard d'Estaing to drop his opposition when the two leaders met in France last week-end.

Herr Hans-Dietrich Genscher, the German Foreign Minister, is also expected to raise the problem during his current visit to Washington. According to some reports he may ask for a postponement of the deadline for a reply, to enable the EEC to study its internal differences, though it is doubtful whether the Carter Administration has the constitutional power to grant a delay.

The U.S. is seeking more than 30 changes in the Euratom Supply Treaty. The most controversial of these changes would tighten up the safeguards on nuclear proliferation risks by requiring that the U.S. give prior consent for the reprocessing of

the EEC or the sale outside the Community of any enriched uranium of U.S. origin.

France maintains that this demand conflicts with U.S. assurances given last year, at the start of the International Fuel Cycle Evaluation programme set up at the Western economic summit in London, that its fuel supply policies would remain unaltered while the study was in progress.

The Nuclear Proliferation Act, however, requires that the EEC agrees only to the principle of renegotiating the Euratom Treaty. The actual negotiations need not start for another two years and could be extended on a year-by-year basis almost indefinitely.

France has also objected that there are no legal grounds for the U.S. demands to change the treaty, which still has more than 10 years to run. But the U.S. has agreed EEC requests—made with French backing—to renegotiate aspects of the treaty on three occasions in the past 20 years.

While no other EEC Government is exactly enthusiastic about the U.S. demands, many officials here consider France's arguments to be excessively legalistic and not of sufficient importance to warrant a bruising political confrontation.



Emminger defends dollar aid

By Our Own Correspondent

BONN, April 4.

DR. OTTHAR EMMINGER, the president of the Bundesbank, today rejected suggestions that the money supply target was being abandoned and the danger of inflation increased through intervention to help stabilise the dollar.

His comments in a newspaper article form part of a growing debate here on whether the country's stability policy is being endangered by the current intervention.

Some economic institutes have suggested that while the inflation rate may well drop below 3 per cent. here in coming months, it will rise again in the autumn because of too fast an increase in money supply. This point in turn is being used as an argument against any further measures of economic refraction this summer.

Dr. Emminger agreed that in the four months October-January, central bank money supply grew at an annual rate of about 14 per cent. (compared with a growth target for this year of 8 per cent.). But since then it had slowed to 7 per cent.

He argued that a temporary overshooting of the target could be tolerated for two reasons. One was that there were no signs of a general, strong increase in demand; the second, the current "excessive" Deutschemark exchange rate was acting as a brake on prices.

He noted that the extent of central bank intervention had dropped in the past few months.

Furthermore, a large part of the excess liquidity had been neutralised. The free liquid reserves of the banks were now rather lower than they were last autumn.

Neutron bomb: the best way to halt tank

BY DAVID FISHLICK, SCIENCE EDITOR

THE NEUTRON bomb is the most effective way yet invented of penetrating the armour of a tank—the basic objective of all anti-tank tactics. No armour is sufficiently resistant against the high-intensity blast of neutrons and gamma-rays, high doses of which will kill very quickly and will also knock out the tank's electronic systems.

The neutron bomb being debated is not strictly a bomb at all, but a warhead for a large (eight-inch) shell, or a missile such as the Lance. Such a warhead would be designed to release much more of its energy as radiation than is "conventional" nuclear weapons.

The basic mechanism is that of the H-bomb—thermonuclear fusion—but whereas a so-called tactical H-bomb might release 50 per cent. of its energy as blast, 35 per cent. as heat and 5 per cent. as "prompt" radiation, corresponding figures for the neutron warhead might be 24 per cent. as blast, 24 per cent. as heat—but 40 per cent. as prompt radiation.

Prompt radiation means the instantaneous blast of neutrons and gamma-rays. The balance of the energy in each weapon is released as fission-product radiation. It is not true, therefore, to say that the neutron warheads kills people by leaving buildings, tanks, etc., intact. But it is true

to say that it is a cleaner weapon, in terms of the residual radioactivity left on the battlefield.

It is also a fact that its effective radius could be much smaller than for any modern nuclear weapon of the conventional kind.

Exploded a few hundred feet up in the air above tank formations, such a weapon would probably kill almost instantly most crew members within a radius of about 800 feet. The less fortunate would die in agony in a matter of days from irreparable damage to the gut and bone marrow, for example.

The quality of the new weapon falls off very sharply with distance. A 104 tactical neutron would produce a lethal second-degree burn on everyone within about 100 metres, whereas the radius for burns from kiloton enhanced radiation would be only about 0.5 kilometre.

The new weapons would afford NATO forces a highly cost-effective measure to a tank arm: a battle that would be for their own territory. Given the present estimates, the Warsaw Pact forces would want the new weapon to fall off very sharply with distance.

BREZHNEV VISIT CONFIRMED

Bonn 'favours deployment'

BY JONATHAN CARR

BONN, April 4.

THERE ARE GROWING signs here that the West German Government is now prepared to support deployment of the neutron bomb in Europe if in sufficient progress is made in East-West disarmament negotiations. The West German Foreign Minister, Herr Hans-Dietrich Genscher, flew to Washington today for high-level talks expected to centre on the problem of the neutron bomb.

He is expected to be accompanied by Herr Egon Bahr, once described as the "pivotal figure of thought" though he has recently toned down his remarks.

The Free Democrats, the junior partner led by Herr Genscher, have come closer to an official public stand favouring deployment of the neutron bomb.

However, there was also uncertainty here on whether the U.S. President, Mr. Jimmy Carter, would approve production of the weapon, and Herr Genscher will be trying to clarify this during his talks with the President and the U.S. Secretary of State, Mr. Cyrus Vance.

Bonn's readiness to accept deployment is bound to arouse the displeasure of Mr. Brezhnev, who wrote some months ago to Western leaders urging them not to accept deployment of the neutron weapon. West German Government sources described his letter to Chancellor Helmut Schmidt as "frank—almost brutal" in tone.

The particular toughness of the Soviet stance towards Bonn was explained here by the fact that it would be in West Germany that the neutron weapon would primarily be deployed.

The West German Government maintained that the decision on production of the weapon lies with the U.S. alone. If President Carter decides to go ahead, then the European NATO States would take note of that and seek to have the weapon used as a bargaining counter in East-West disarmament talks.

The U.S. has been seeking a pledge from its allies that they will be prepared to accept deployment of the weapon if the disarmament talks do not have the desired result. It is on this point that Bonn now appears able to reassure Washington.

The Government has not so far made details of its stand public at least partly because of strong opposition within the Social Democratic Party (SPD), the senior partner in the coalition. The party manager, Herr Egon Bahr, once described the weapon as a "perversion of thought" though he has recently toned down his remarks.

The Free Democrats, the junior partner led by Herr Genscher, have come closer to an official public stand favouring deployment of the neutron bomb.

NATO frustrated by Carter hesitation

By David Buchan

BRUSSELS, April 4.

NATO officials are getting increasingly frustrated at President Carter's reluctance to reach a decision over the neutron bomb. NATO officials want the bomb deployed as soon as possible.

Making a tally of the key countries on whose territory, or with whose forces, the bomb would be deployed, NATO officials believe that Prime Minister James Callaghan has gone about as far as the Left wing of his Labour Party will let him go in hinting that the neutron bomb should be added to the NATO armoury.

But here too there are internal divisions. The FDP security affairs spokesman, Herr Jürgen Moellmann, bluntly said today that Herr Genscher would be saying "yes" to the weapon in Washington. He claimed a big majority of the Bundestag supported this. His view was promptly contested by some party colleagues.

David Satter adds from Moscow: For the Russians, Mr. Brezhnev's Bonn visit will be an opportunity to give fresh impetus to East-West détente but only

if the question of neutron bomb has been effectively laid to rest. Soviet-German relations have been good since the 1970 Moscow Treaty, which normalised relations and the quadripartite agreement on Berlin in 1971.

West Germany is the Soviet Union's largest Western trading partner and has had considerable success in gaining Soviet agreement to the emigration of ethnic Germans, and does not have a pointed confrontation with the Soviet Union over human rights.

At the same time, West Germany, as the principal potential deployment area for the neutron bomb, is an inevitable focus of Soviet concern over the weapon.

A recent Tass commentary reminded West Germans that the "advantage" for the Federal Republic because "if a conflict is provoked, it will be West Germany itself, being the nuclear arsenal of the United States, that would first of all be turned into atomic desert."

As a matter of established practice, Mr. Brezhnev prefers to have summit meetings end in the signing of documents. There are three pending Soviet-German agreements on scientific and technical co-operation, legal assistance and cultural co-operation, which have been held up because each is covered by a Federal German agency located in West Berlin.

If some way of surmounting the West Berlin problem can be found, Mr. Brezhnev's visit could end with the signing of these agreements, or with a joint statement of principles on détente similar to that signed last June during his visit to Paris.

Mr. Brezhnev will probably be accompanied by high-ranking Ministers and the visit could also be the occasion for announcing new large-scale joint projects.

A great deal will depend, however, on whether the West Germans have agreed to the deployment of neutron weapons on their soil.

Moscow ready to negotiate bilaterally

By Leslie Collett

BERLIN, April 4.

THE SOVIET AMBASSADOR East Germany says Moscow is now prepared to negotiate the U.S. over the highly versatile neutron bomb.

Soviet Ambassador Leonid Brezhnev, during Soviet talks with the U.S. in Washington, said that the U.S. should be in the position of making the first move.

Until now, the Soviet Union has sharply condemned the U.S. for its neutron bomb, and has not suggested it is negotiable with the U.S. over the weapon.

As Mr. Brezhnev stated here today, the "advantage" for the Federal Republic because "if a conflict is provoked, it will be West Germany itself, being the nuclear arsenal of the United States, that would first of all be turned into atomic desert."

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German engineers pay deal hitch

BY ADRIAN DICKS

BONN, April 4.

THE WEST German engineering employers' federation, Gesamtmetall, today broke with tradition and raised the possibility of renewed unrest in the industry, when it formally refused to accept as the national norm yesterday's hard-fought provisional pay deal in the North.

The deal, reached early on Monday, would push against the upper limits of the Government's 1978 incomes targets, but had been greeted with relief as a solution to one of the longest and most costly industrial stoppages in post-war West German experience.

In reaction to Gesamtmetall's announcement, Herr Eugen Lohmer, president of the engineering workers' union, IG-Metall, described the employers' attitude as "extraordinarily

inflammatory, political behaviour" which could not fail to have an effect on the entire social climate.

IG-Metall, which has good reason to be satisfied with the 5 per cent wage increase, plus job security clauses, that it won in North, Württemberg-North Baden, has not unreasonably assumed that these terms would now be applied to the remaining wage bargaining regions, where talks are less advanced. Using one region as a model for the country as a whole is common enough practice, and the area around Stuttgart has often served this purpose for the engineering industry in the past.

This year, however, has seen a distinct hardening of attitudes directly has affected some 250,000 talks in the region will continue all this week. Further short-time working in other parts of the country was expected, above all in the motor industry.

North Württemberg-North Baden to the unprecedented provisions guaranteeing workers protection from pay losses due to the introduction of labour-saving equipment.

The package agreed in Stuttgart yesterday has not, meanwhile, been formally accepted by the regional employers' organisations, while IG-Metall will not now be applied to the remaining wage bargaining regions, where talks are less advanced. Using one region as a model for the country as a whole is common enough practice, and the area around Stuttgart has often served this purpose for the engineering industry in the past.

This year, however, has seen a distinct hardening of attitudes directly has affected some 250,000 talks in the region will continue all this week. Further short-time working in other parts of the country was expected, above all in the motor industry.

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Holland opens options exchange

BY CHARLES BACHELOR

AMSTERDAM, April 4.

THE MOST ambitious venture in traded options dealing outside the U.S. was opened in Amsterdam today. Dealers engaged in mock deals following the opening of the European Options Exchange (EOE) by Mr. Frans Andriessen, the Dutch Minister of Finance, ahead of the start of trading in earnest to-morrow.

The EOE just managed to reach its opening target of April 4 even if trading did not start on opening day.

The EOE has been closely modelled on the five-year-old Chicago Board of Options Exchange which has already spawned four other traded options markets in the U.S. as well as in Toronto, Montreal, Sydney and Singapore.

But Amsterdam is unique in deliberately setting out to create an international market in both stocks in which options are traded and in its membership. It has had to trim its early,

optimistic plans to trade between 10-15 options from half a dozen countries and is starting with nine stocks—three each from the U.K., the U.S. and Holland.

It has also decided to limit hours of trading in the first few days of operation until levels of activity have had time to build up. It said today, however, that trading in the first three days will last 4 hours, from 10.30 a.m. until 3 p.m. instead of the two-hour sessions announced yesterday. This is still shorter than the six-hour trading day planned when it was first set up.

Amsterdam has succeeded in attracting a wide spread of members from Holland, France, the U.S., Belgium, Switzerland and Austria. British stockbrokers and banks have so far only participated through subsidiaries domiciled abroad while discussion about the rules governing British membership continues with the Department of Trade.

The EOE's trading floor is in the merchants exchange, next to the stock exchange proper, on Amsterdam's "Damrak". The building was originally the home of the Amsterdam corn exchange

but Holland's commodity trading is now concentrated largely on Rotterdam. Appropriately Chicago's grain traders were behind the setting up of the first U.S. traded options market.

In an indirect reference to London's plans to open a much more limited options market on the floor of the stock exchange in three weeks' time, Mr. Andriessen commended the EOE's decision to separate share and options dealings on two different floors.

He also expressed the authorities' concern that the Amsterdam venture should avoid the problems of the U.S. markets, where further expansion of option trading has been halted pending a Securities and Exchange Commission inquiry.

"The American experience in options can serve both as an incentive and a warning," he said at the opening ceremony. "While dealing in options can cover risks entailed in the transactions in the underlying assets that can also create risks. I don't object to risk-taking provided we know what the risks are and we are able to bear them."

Shorter week in Belgium

BY DAVID BUCHAN

BRUSSELS, April 4.

BELGIAN UNIONS have this week won a notable victory in demands for a shorter working week at a Ford plant in Genk their campaign for shorter working hours as a means of reducing the country's high unemployment.

The overall aim of the campaign is to reduce Belgium's current level of unemployment, running at nearly 300,000, by spreading around what work is available from 40 to 38 hours at the end of this year.

The concession has ended a six-week strike at FN, the 9,000-strong workforce is to return to work to-morrow. This balances the defeat the unions lost last month when in the EEC.

Hart in Gibraltar talks

BY JOSEPH GARCIA

GIBRALTAR, April 4.

SUBSTANTIAL BRITISH financial support for Gibraltar is believed to be the probable outcome of development aid talks which began here today between Mrs. Judith Hart, the Minister for Overseas Development and Gibraltar leaders. Education and housing are likely to be the main priorities in the Gibraltar Government's development programme for the next three years. Reclamation in the port area to take account of increased container traffic is another pressing need.

In the past there has been mounting criticism here of delays by British Government departments in approving British-funded schemes for Gibraltar. A number of projects in the current development programme have not even been started and will overspill into the next one. It is thought that aid granted at this week's talks which are to be followed later this month by a tough local budget.

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EUROPEAN NEWS

New powers planned for Swiss central bank

BY OUR OWN CORRESPONDENT

ZURICH, April 4.

NEW POWERS are foreseen for the Swiss National Bank in a Bill presented to Parliament by the country's governing Federal Council. A revision of the National Bank law would authorise the body to enforce various monetary measures which have hitherto been possible only on the basis of temporary emergency legislation or ad hoc agreements with the banking system.

The Bill would permit the bank to call in interest-free minimum reserves from the banks for holding on blocked accounts, a step intended to allow skimming-off of excess liquidity. The bank would also be able to increase or reduce these commitments in keeping with money-supply requirements.

The reserve sums could be equal to maximum rates of 12

per cent. of short-term demand deposits or 40 per cent. of the rise in such deposits. In the case of long-term deposits, the top rates would be of 2 and 5 per cent., respectively. These percentages could be doubled for foreign deposits as an extra move to ward off non-resident funds.

At the same time, the National Bank would be authorised to effect an open-

market policy, purchasing or selling short-term securities as a means of expanding or reducing commercial banks' liquidity volumes.

In the foreign exchange field, the maximum maturity for claims on foreign deals would be raised from three to six months and the bank allowed to acquire easily-negotiable promissory notes of international organisations or foreign banks.

Giving the Government greater authority

BY JOHN WICKS IN ZURICH

BAILIFF is a favourite political insult among the Swiss. It all goes back to Gessler, bailiff of the Habsburg emperors, who vainly tried to make the Swiss national hero, William Tell, salute his hat stuck up on a pole as a symbol of authority.

Whether it actually happened or not, almost 700 years ago, the Swiss have retained a deep-seated distrust of imposed Government. Their traditional dislike of being told what to do (coupled with a certain pleasure in telling others and especially the bailiffs, what to do) has resulted in what comes close to being a classical democracy with its virtues and vices.

This process, together with the organic growth of the Confederation as an organisation of sovereign cantons, has kept central Government and a national bureaucracy down to a minimum. Communal and cantonal politics are important because the communes and cantons are endowed with so much administrative power. Federal authority is remarkably circumscribed.

Because this is how the Swiss like it, and because Switzerland has proved so much more successful a venture than many of its neighbours in modern history, the principle of direct and decentralised democracy not unreasonably came to be regarded as necessary in the public interest. The economic parallel lay in the development of virtually untrammelled free enterprise.

The past few years, however, have brought with them a growing need for delegated power. Just as Switzerland had to close ranks when surrounded by potential enemies in the two World Wars, so there has been a need for emergency action by the powers-that-be during the ups and downs of the national and international economy since the late 1960s. More and more problems have presented themselves which could not be solved at parish-pump level or by a simple referendum vote.

One of the biggest was the result of a definite "up" of the economy. From 1960 to 1974, the peak year, the foreign population of the country expanded by almost half to 1.06m. (excluding seasonal workers), because of a large-scale recruitment abroad of labour for industry and the construction and service trades. By the late 1960s this influx—which meant that one-sixth of the resident population was made up of aliens—had brought about an xenophobic movement. In 1970, some 46 per cent. of the electorate supported a drastic motion by a nationalist Parliamentarian, Dr. James Schwarzenbach, to

reduce to 10 per cent. (25 per cent. in the special case of Geneva) within four years the share of foreigners in each canton's population.

Before the referendum took place, the Federal Government had promised to stabilise the number of foreign workers; similar efforts in previous years had failed because of insufficient strictness on the part of the cantons. One of the reasons why the Government was concerned about the growth of the foreign work force was the excessively quick expansion of the economy.

Public opinion as to the necessity for "interference" from the Confederation and its agencies changed fundamentally in view of phenomena such as the overabundance of foreign workers,

The past few years have brought a growing need for delegated power.

double-figure inflation, and the doubling of the external value of the Swiss franc.

It was increasingly realised that the complicated nature of the modern world and the close links between Switzerland and other countries called for a more effective and flexible central Government. This belief was strengthened when, in 1975, the economy plummeted, and Bern took such steps as an official work-creation programme (which would have been anathema to a right-thinking Swiss of only a couple of years before), the introduction of compulsory unemployment insurance and a subsidy very modest aid for crisis-stricken industries.

It was against this background that, in February, a large majority in a referendum voted in favour of extending the constitutional rights of the Federal Government to intervene in economic processes. Aimed particularly at enabling fast action to counter unemployment or inflation, the new clause permits the Government to intervene in the monetary, banking, public finance and foreign-trade sectors. In the new legislation the Government is expressly permitted to depart from the constitutional principle of commercial liberty where necessary and can take into account the "varying economic development of individual areas of the country." That provides a base for the formerly abhorred idea of a State structural policy. Among specific measures open to the administration are the temporary raising or cutting of federal taxes and dues.

The economic shocks of the past three years have meant that there was little organised opposition to the proposal.

Another element which has definitely played a part in popularising the idea of the more centralised control was last year's Credit Suisse scandal. The National Bank and the Banking Commission found their way clear to introducing all sorts of new restrictions agreed with the banks, which until then would have been considered crass interference and totally unnecessary.

The more important of these measures are embodied in a five-year agreement with the Swiss Bankers' Association, drawn up at the double last year under considerable National Bank pressure to improve identification of client funds and stop Swiss banks actively promoting the flow of fugitive money into Switzerland. In October the association itself issued a set of guidelines on fiduciary business and said it was working on proposals for depositor protection.

The Credit Suisse case also triggered off a Social Democratic campaign to strengthen State control over banking, while the future referendum on this still vague motion is virtually sure to fail, it is symptomatic that it should be suggested at all.

In the fiscal sector, there is a growing acceptance of the importance of the Confederation as a dispenser of funds—and thus of the necessity for the central Administration to take more in tax. Bit by bit, the Federal tax income is swelling.

At the same time, steps are now at long last being taken to "harmonise" cantonal taxes to some extent; this bastion of regional rights is no longer the forbidden ground it once was, even though a real standardisation of local tax systems is still nowhere near in sight.

It would be a mistake to exaggerate the growth of the central Administration's power base. The Federal Council and Parliament will continue to have their knuckles rapped by the electorate from time to time and will continue to steer clear entirely of some questions which are subject to communal and cantonal sovereignty. Switzerland is certainly not in the process of changing from a confederation into a federal republic. But the Government and bodies such as the National Bank are needed more and more as the outside world impinges to an ever greater extent on Switzerland and as changing views on the economy and social services demand increased performance from the Federal Administration.

Spanish Minister warns industry

By Our Own Correspondent

MADRID, April 4.

SENOR AGUSTIN Rodriguez Sahagun, Spanish Industry Minister, warned in an interview published to-day that the Government will not come to the rescue of private companies which have serious difficulties.

It was his first declaration since he was appointed Minister at the end of February in a Government reshuffle and comes at a time when many companies are going through a crisis period as a result of the depressed economy.

The Minister, formerly the head of the two leading employers' organisations, said in the newspaper *El Pais* that the Government "would not become a hospital or asylum for companies" and that it would only intervene in cases involving "general strategic interests" or when demand fell off drastically.

He said that there had been too much paternalism during the time when the industrial base of the Spanish economy was being formed and that the time had now come for restructuring to meet future needs. Companies would now be left to define their own plans in accordance with this policy.

Inefficient companies would not be helped and must realise that their day of reckoning could not be put off for ever.

Babcock and Wilcox Espanola in Bilbao, in which the British company Babcock and Wilcox has a 10 per cent. stake, suspended temporarily all its outstanding payments last month. The machine tool manufacturer has total outstanding debts of Ptas.16bn. (\$195m.) against total assets of Ptas.24.55bn. (\$298m.).

In February, the Bank of Spain and most private banks set up a "hospital bank" to come to the rescue of ailing banks, but this idea for the banking world has not been taken up on a wider industrial level.

Recently, the Government has come under attack from employers for not doing enough to represent their interests and the Minister's warning is likely to increase their discontent.

The Government will report to the Cortes to-morrow on the economic situation and will assess its Moncloa Pact with the opposition parties. The Government feels that the Pact is producing results and that, for example, the inflation rate (26 per cent. last year) could be cut by between 8 and 10 per cent. by the half-year.

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OVERSEAS NEWS

PRESIDENT MOBUTU OF ZAIRE

Playing on fears of past chaos

BY A SPECIAL CORRESPONDENT IN LUBUMBASHI

LAST month's execution of 13 Zairean elite of private and state business are deeply concerned plotting his overthrow has given a further clear indication that President Mobutu Sese Seko has no intention of liberalising the one-man rule he has exercised in Zaire for over 12 years.

There are signs, too, that he is matching his firm regime at home by keeping exceedingly close tabs on the myriad opposition groups in exile, mainly in Belgium, one of which was said to have intimate links with the alleged leader of the conspiracy, Major Kalume Amba.

The Zairean leader is a man facing a lot of problems. The country's economic crisis is deepening, the situation here in the southern copper-producing province of Shaba is far from settled after last year's insurrection and, as the executions demonstrated, he still feels it necessary to purge not only the body politic but also the army.

Over the years President Mobutu has developed an intensely personalised style of rule, surrounded by a privileged elite characterised mainly by its loyalty. He has been known to call himself "war" and terms himself the "guarantor of Zaire's future." Official posters describe him as the "guide" and "salvation" of the vast, ramshackle nation.

President Mobutu has played effectively on the fear of many Zaireans of reliving the chaos and violence of the immediate post-independence period. For many the thought of Mobutu's demise is still equated with deep anxieties about a resurgence of the bloodshed of the 1960-65 era, before he came to power and introduced a measure of unity and relative stability.

But a new element of doubt is creeping in with the emergence of a youthful largely urban generation with no first hand memory of pre-Mobutu days to offset its complaints about shortages, corruption and the widening gulf between the privileged elite and the rest of Zaire's 25m. population—twice the 1960 figure.

A survey conducted by Western diplomats in Kinshasa last year revealed that in the volatile 15 to 24 age group in the shanties surrounding the capital, unemployment was running at 48 per cent.

All this paints a picture of potential unrest that prompts the question: can Mobutu survive? Many believe he can, and, indeed, must. The white and

black Zairean elite of private and state business are deeply concerned plotting his overthrow has given a further clear indication that President Mobutu Sese Seko has no intention of liberalising the one-man rule he has exercised in Zaire for over 12 years.

President Mobutu's system of patronage and his harsh reaction to opposition, real or imagined, have ensured over the years that there is a loyal body of supporters in the army and in the administration as well as in the private business sector. He is, as a result, one of the few African leaders who travels frequently

has carefully juggled the various constituencies that abound in Zaire, Africa's third largest nation populated by over 350 tribes, bringing in or neutralising potential threats and ensuring that his power is undiminished.

There is said to be a parallel command in the army alongside the formal hierarchy, created on a system of fealty that runs directly to the president himself. At last month's tribunal, most of the 80 soldiers and civilians sentenced to death or imprisonment came from the central Kasai region or the southern Shaba area—an indica-

they had not been paid for two months. Similar roadblocks are reported on the main Matadi-Kinshasa road where lorries carrying the capital's imported food supplies now proceed in convoy to minimise the "tolls" the army exacts. Unlike the Presidential guard, the North Korean-trained Kamanyola brigade which is garrisoned in Shaba, experiences the same food and pay problems as the rest of the army.

At the same time, the FNLC of Col. Nathaniel M'Bumba continues to strike across the border in Shaba, raising fears that a second insurgency may be in preparation. Landmine-laying and harassment raids have been enough so far to keep the Kamanyola brigades tied down in the province, and there has been no indication that Angola-Zaire détente is anywhere near the stage where these two bitter enemies will reign in their respective surrogates.

President Mobutu's response to this will almost certainly involve an urgent appeal to the West to bail him out in return for his stand against Communism following Cuban and Soviet victories in Angola and the Horn. President Mobutu appears to be placing himself as the only viable alternative to the expanded Communist influence in Africa and to Soviet control of an area stretching halfway across the continent with some of the world's major resources of copper, cobalt and industrial diamonds. If recent indications are anything to go by, his rule at home will be harsh. Last January at least 700 people were reported killed when the Presidential guard put down country. The fact that most of the 50,000 to 75,000 Zaireans who fled to Angola during the Shaba crisis have yet to return appears to be an indictment of both the President and the Zairean armed forces, 8,000 to 9,000 of whom are now garrisoned in Shaba province.

The army itself is far from trouble-free. On the road leading here from the Zambian border 60 miles from here, ragged soldiers manned six makeshift roadblocks, apologetically explaining to those that asked that they had to exact "tolls" because of growing resentment against the President's rule in the central and southern areas of the country. The fact that most of the 50,000 to 75,000 Zaireans who fled to Angola during the Shaba crisis have yet to return appears to be an indictment of both the President and the Zairean armed forces, 8,000 to 9,000 of whom are now garrisoned in Shaba province.



Refugees flee Angola offensive

BY QUENTIN PEEL

JOHANNESBURG, April 4.

MORE THAN 700 refugees have fled across the Angolan border into the northern Kavango province of neighbouring Namibia (South-West Africa) from fighting between Angolan Government forces and guerrillas.

The refugees, all said to be civilians, have come from at least 100 kilometres inside the Angolan province of Cuando Cubango where a major offensive by Government troops against Unita is said to be under way. Their presence in Kavango is the only hard confirmation of reports that a major offensive has been launched.

According to newspaper reports from the Namibian capital of Windhoek, attributed to "usually reliable sources" which are understood to be the South African Defence Force, the Angolan Government offensive is backed by Soviet MIG aircraft and armed helicopters, piloted by Cubans and East Germans. The reports say the offensive, against an area which has long been a Unita stronghold, has been continuing since the beginning of March.

The South African reports said one wing of the offensive in Cuando Cubango had been halted some 200 kilometres from the Namibian border after Unita cut the Government forces' supply lines. However, in neighbouring

Guinea province, the Unita guerrillas are said to be "hard pressed."

The South African Defence Force is believed to be supplying Unita with training and equipment, although it has always disavowed such suggestions. Its information is thought to come directly from the guerrillas.

Marlin Dickson adds: At a news conference in London, Mr. Jeremiah Chitunda, the Unita Secretary for Information, also said that a major offensive by the Luanda Government had been going on in Cuando Cubango for the past fortnight. He claimed that 5,000 Cuban and 2,000 Government soldiers were involved.

New Union constitution for Ghana

By Our Foreign Staff

PREPARATIONS for a new constitution in Ghana are under way after a majority vote for a Union Government in a referendum. Six of the country's nine regions voted for the Union formula which will mean a no-party system with involvement of the armed forces.

A commission will be appointed to draw up a draft constitution by the end of April. Three groups which opposed the idea of a Union Government have been outlawed. The High Court judge who was to supervise the referendum has emerged from hiding, saying that he was intimidated by a group of armed soldiers. Judge Isaac Aboah vanished just before the referendum.

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OVERSEAS NEWS

U.S. team in Lebanese army talks

BY ISHAN HUAZI

AN AMERICAN military team today began talks here on assistance in rebuilding the Lebanese army. The five-man delegation met Mr. Fuad Butros the Defence and Foreign Minister and Brigadier General Victor Khouri, the army commander.

Last August, the U.S. government promised to provide Lebanon with \$100m. worth of arms and other military equipment to help President Elias Sarkis reconstruct the Lebanese army which had disintegrated during the civil war two years ago.

The Lebanese-American talks acquire a special significance in the light of preparations to send about 4,000 Lebanese soldiers forming the nucleus of the new army to South Lebanon to extend the Lebanese government's authority there—in co-operation with U.N. forces.

A unit of Lebanese gendarmerie today began patrol duties on the main highway between the ports of Sidon and Tyre. This is the first time in two years that Lebanese security men have ventured south of Sidon. Until the Israeli invasion of the south two weeks ago, the area from Tyre all the way to the Israeli border was virtually under Palestinian guerrilla control.

Mr. Sarkis is reported to be determined to have last month's U.N. Security Council resolution applied in the south in full. The resolution provided for extending Lebanese national authority to the border region.

Mr. Sarkis is also the Foreign and Defence Minister, rarely travels abroad, and usually concentrates on domestic affairs. His visit to Libya—

East, arrived here today for talks with Lebanese officials on progress in deployment of UN troops in the south.

About 1,500 of these troops have already taken up positions there. Their number is expected to double by next week, according to Dr. Kurt Waldheim, the UN Secretary-General.

Rami G. Khouri adds from Amman that Mr. Badran, Jordan's Prime Minister, today began a three-day visit to Libya. Significant for indicating the way alliances within the Arab world may be shifting in reaction to the stalled peace initiative of President Sadat of Egypt towards Israel.

Mr. Badran, who is also the Foreign and Defence Minister, rarely travels abroad, and usually concentrates on domestic affairs. His visit to Libya—

BEIRUT, April 4.

Libya's invitation—to be expected to concentrate on bilateral affairs, and is almost certain to result in a resumption of the annual subsidy of some \$10m. that Libya had previously paid to Jordan under the terms of Arab summit agreements. The subsidy was discontinued after Jordan broke off relations with Libya because of the fighting between Jordanian forces and the Palestinian resistance in 1970-71.

Relations were restored last year. Diplomatic sources here say that Colonel Gaddafi, the Libyan head of state, believes that the Jordanian attitude towards the Sadat initiative has been honourable and correct, and that it was primarily the refusal of King Hussein to join the Egyptian-Israeli talks in Cairo that has exposed the obstinacy of the Israelis.

No big Israeli withdrawal yet, UN claims

BY DAVID LENNON

ISRAEL has not withdrawn any substantial number of troops from Lebanon, according to UN officials and correspondents on the spot. Their eye-witness reports contradict an Israeli army statement yesterday that there has been a significant thinning out of troops during the past week.

The three-day lull in fighting in the occupied-zone was shattered yesterday when Palestinian forces north of the Litani River fired 150 shells at the Christian village of Marjayoun just east of the Khadadi Bridge. Israeli troops did not intervene, but fire was returned by the Christian militia in the village.

The small build-up of UN Interim Force (UNIFIL) troops is continuing, with 1,700 already in place. In addition to the French, Swedish, Norwegian, Iranian and

Canadian soldiers in south Lebanon, troops are due to arrive from Nepal, Senegal and Mexico. The UN spokesman in Jerusalem said today that the issue of Israeli troop withdrawals was still under discussion between the UN and Israel. Lt-Gen. Sillarsvuo, head of the UN Peace Keeping Missions in the Middle East, on Sunday met with Major-General Mordechai Gur, the Israeli Chief of Staff, "to discuss the modalities of the Israeli withdrawal."

According to the spokesman, no final time-table had been agreed and there were no indications that Israel had pulled out any troops.

The Israeli army spokesman insisted today that Israel had withdrawn some troops but refused to specify how many or from which fronts. He denied reports in some Israeli papers that troops had already been withdrawn from the Litani River.

Correspondents in south Lebanon reported that they saw no indication that Israel was withdrawing or even preparing for withdrawal.

It is understood that Mr. Samuel Lewis, the U.S. ambassador, discussed the issue when he met yesterday evening Mr. Menahem Begin, the Prime Minister.

It is expected that there will be some agreement on troop patrols shortly. Mr. Ezer Weizman, the Defence Minister, who is due to return to Cairo next week, will want to show Israel's goodwill by pointing to the agreement to pull back troops or possibly the beginning of this movement.

The Cabinet held a lengthy

Japanese Diet passes budget

BY DOUGLAS RAMSEY

JAPAN'S fiscal 1978 budget became law today after passing through the Upper House of the Diet (Parliament) just four days after the start of the fiscal year. Two enabling bills passed the House of Councillors by a vote of 125 to 106 with most opposition members voting against the budget on the grounds that it does not fully meet their demands for big income tax cuts this year.

In Japan, separate bills are required to enable spending on general account amounting to ¥34,255bn., around £33bn., in

1978) and the Government's fiscal loan and investment programme (¥14,850bn.). According to the Construction Ministry today, public works projects placed under its aegis by the 1978 budget will produce ¥23,500bn. worth of new demand in the Japanese economy and create an estimated 50,000 new jobs.

The Ministry indicated, moreover, that it will carry out the Government's declared policy of "telescoping" a sizeable portion of public works spending into the April-June quarter. It is estimated that the

TOKYO, April 4.

Nkomo to consider new meeting

LUSAKA, April 4.

LEADERS of Rhodesia's Patriotic Front guerrillas will meet soon to discuss their response to the latest Western peace moves for the territory. Front co-leader Joshua Nkomo said today.

He and Mr. Robert Mugabe may bring forward a meeting planned for next week to work out their position. Mr. Nkomo told a news conference here.

Britain announced yesterday that British and U.S. envoys would visit Africa soon to try to arrange a two-stage conference on a Rhodesia settlement.

The envoys, Mr. John Graham from the Foreign Office and Mr. Stephen Low, U.S. Ambassador to Zambia, will attempt initially to arrange a meeting between Anglo-American negotiators and the Patriotic Front, and then an all-party conference grouping the Patriotic Front, signatories of the internal agreement and other interested parties.

Mr. Nkomo made it clear that the Patriotic Front maintained its earlier stand on peace efforts.

"We made it clear that we have not accepted the Anglo-American proposals but that we agree to negotiate with the British and the Americans on the basis of those elements that are acceptable," Mr. Nkomo added. Reuter

Tokyo airport to open in May

BY OUR OWN CORRESPONDENT

IN THE midst of continued threats from radical opponents that they will fight on, the Japanese Government announced today that it will officially open the new Tokyo International airport at Narita on May 20 and that the first scheduled flight will touch down on the following day.

The new date was signalled to all foreign airlines who now must take the necessary measures to switch their flight programmes from the present Haneda airport near Tokyo to Narita, 40 miles outside the Japanese capital.

At a special Cabinet meeting

this morning, the Government also agreed to create an airport security guard charged with preventing any further violence at Narita of the kind which forced the delay in opening of the airport.

Only days before the airport was to open, thousands of protesters scuffled with some 14,000 riot police in and around the airport, while a half-dozen radicals got into Narita's control tower and smashed several million dollars' worth of ground communications equipment. The Cabinet has apparently ruled out the arming of airport riot police with pistols.

TOKYO, April 4.

Japan has edge on EEC in China

BY CHARLES SMITH, FAR EAST EDITOR IN HONG KONG

JAPAN SEEMS likely to hold an advantage over Western Europe in exploiting the opportunities created by China's recently announced economic modernisation plans even though the EEC has succeeded in negotiating a trade agreement with Peking.

This was forecast by Mr. David Newbagg, chairman of the Hong Kong-based trading group, Jardine Matheson on the second day of the Financial Times Asian Business Briefing yesterday.

Mr. Newbagg said Japan appeared to have the edge over Europe in that its newly concluded trade agreement with China provided for specific quantities and types of goods to be exchanged (totaling \$10bn. each way over an eight-year period) whereas the EEC agreement only provided a legal framework for trade. The extension of Most Favoured Nation treatment to China in the agreement would not make much difference, because the EEC was already applying MFN rates to its imports from state trading countries. Another questionmark over EEC-China trade is the speed at which the EEC Commission would be able to negotiate the expansion of import quotas on Chinese products.

Despite European handicaps vis-à-vis Japan, trade relations between the two were still expected very substantial growth in China's trade with Europe over the next few years. He thought China was particularly interested in obtaining technology and advanced industrial equipment from the U.K., West Germany, France and Italy. He took a much more limited view of the prospects for U.S.-China trade, which he said, remained constricted by political problems (arising out of U.S. non-recognition of Peking). Until these problems were sorted out, China would continue limiting its imports from the U.S. to products it could get nowhere else (for example, commercial jet aircraft, urea fertiliser plants, com-

puters and some types of machine tools). Products like wheat and soybeans would only be bought from the U.S. when market conditions forced China to do so.

Reviewing the prospects for Hong Kong-China relations, Mr. Newbagg expressed confidence and optimism. He estimated China's foreign exchange earnings from Hong Kong at between \$2bn. and \$3bn. per year and said that, so long as this flow of funds continued, China would be unlikely to want to disturb the

status quo. "It is practical policies, rather than 19th century agreements, which will determine the future of Hong Kong."

Mr. Newbagg's assessment of China's future trade relations was balanced by a review of Japan's overseas relations in which Prof. Kei Wakizumi of Kyoto Sangyo University argued strongly for a more activist foreign policy. Mr. Wakizumi presented opinion in Japan as being divided between pacifists who believed that Japan remained powerless to influence its external environment and advocates of a continuation of "low posture policies" with heavy reliance on the U.S., and activists who felt that Japan must play a leading part in "re-shaping the international order."

As examples of successful "activism" by Japan in the recent past Prof. Wakizumi

Energy and tax bargain under discussion

By Jurek Martin

WASHINGTON, April 4. THE CARTER Administration is toying with the idea of backing a Congressional bargain on two outstanding policy issues—the stalled Energy Bill and the growing desire to reduce recent and planned social security tax increases.

The principal advocate of the ingenious scheme, whereby the proceeds of the proposed tax on crude oil would be used to compensate for a cut in social security levies, is Congressman Al Ullman, chairman of the House Ways and Means Committee.

He appears to have struck some responsive chords inside the Administration, which is making last ditch efforts to get a reasonably effective Energy Bill through Congress and which is simultaneously afraid that Congressional action on social security can only lead to a further hike in the \$24.5bn. tax cut package.

However, both Administration and Congressional sources acknowledge that it might be difficult to get Congress to accept this linkage. Senator Russell Long, Chairman of the Senate Finance Committee is thought to have a low regard for the crude oil tax in any case, a dim view about tinkering so soon with social security and profound scepticism about linking the two.

Just about the only circumstance under which Mr. Long would permit the crude oil tax to take effect would be if the oil and gas industry received a sizeable chunk of its profits as a reward for further exploration. The Administration, of course, wanted the proceeds to be ploughed back to consumers.

Mr. Michael Blumenthal, the Treasury Secretary, is due to testify before Congress on the method of determining the trade figures, which is widely used outside the U.S. On this basis, the U.S. deficit last year came to \$31.4bn., about \$5bn. more than the merchandise trade shortfall which is normally emphasised here.

On the basis of the trade figures from the first quarter of 1978 to the first half of last year, he finds that about half the \$38.4bn. turnaround in the trade balance was accounted for by the surge in oil imports, an energy policy, of course, which is a country's defence.

Mr. Lawrence points to a 15 per cent turnaround in relative domestic inflation; and a drop to non-interference with the first half of 1978 which was the first half of 1977, according to a new study released under the auspices of the Brookings Institution today.

The author, Mr. Robert Z. Lawrence, argues that this will be caused, principally by the deteriorating competitiveness of U.S. manufactured goods in world markets, brought about by the appreciation of the dollar in 1975-76, which has still to work itself through the system.

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Canada raises lending rate to stem fall of its dollar

BY VICTOR MACKIE

OTTAWA, April 4.

THE CANADIAN Government has moved again to try to stem the decline of the Canadian dollar by increasing the Bank of Canada's lending rate to 8.5 per cent, and increasing its line of credit for U.S. dollars by \$1bn.

The increase in the standby credit with Canadian chartered banks from \$US 5bn. to \$US 6.5bn. and the announcement that the Bank of Canada's lending rate will rise 0.5 per cent was made late on Monday. It followed a drop in the Canadian dollar to 82¢ U.S. cents, the lowest point since the depression of the 1930s.

In the Commons, Mr. Jean Chretien, the Finance Minister, made the surprising disclosure that he plans to bring in a new Budget this month. Earlier, he had been rejecting Opposition calls for a budget by saying he wanted to see how the financial measures he introduced last autumn were working through the economy.

Opposition leader, Mr. Joe Clark, said that the budget should introduce sales tax cuts and reductions in income-tax for the low and middle-income earners. He said the Government should not bring in a "do-nothing" budget at a time of severe economic crisis.

Opposition MPs outside the House were cynically predicting that the Government would introduce massive tax cuts and then dissolve Parliament to go to the country for a general election in June.

Mr. Chretien said that the date of the budget will be announced after the Cabinet meeting. The announcement by the Bank of Canada came some hours after Mr. Chretien's House disclosure.

The higher lending rate took effect on Tuesday. Mr. Gerald Boney, Governor of the Bank, said that the pressure on the Canadian dollar resulted partly from normal seasonal weaknesses in the balance of payments, causing an outflow of funds, and partly from a temporary fall in foreign

per cent turnaround in relative domestic inflation; and a drop to non-interference with the first half of 1978 which was the first half of 1977, according to a new study released under the auspices of the Brookings Institution today.

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VENEZUELAN ELECTIONS

Close race to the presidential post

BY JOSEPH MANN IN CARACAS

VENEZUELA officially launched its 1978 presidential campaign last week-end with a spirited assortment of rallies, marches, and "romerías" (picnics) all over the country.

Candidates spoke to cheering crowds in provincial cities, shook hands by the thousand and munched local delicacies while their supporters drove long caravans of decorated cars through the larger cities, honking horns, blasting out songs on loudspeakers and littering streets with leaflets.

Venezuelans will go to the polls in December to choose a new president, national congress, state and local representatives. They will all take office in March next year and serve for five years. Most campaign energy, though, will be directed toward the election of each party's presidential candidate. This will be the fifth popular election since the country's last dictator—Gen. Marcos Pérez Jiménez—was ousted by a military-civil revolt in 1958.

Venezuela, the largest petroleum producer in Latin America and the country with the region's highest per capita income, ranks as one of the few nations south of the Rio Grande which has regular, democratic elections. It will prove it this December.

Most matters are nearly the same in the four elections held since 1958. AD has won the presidency three times while the COPEI candidate, Dr. Rafael Caldera, captured the presidency in a close race in 1968.

The two top candidates in 1978 are Luis Herrera Ordaz for the government party and Sr. Luis Herrera Campins of COPEI. Both men were born in rural Venezuela in 1926 and have devoted their professional lives to party politics.

Sr. Herrera is a member of the Chamber of Deputies and secretary general of his party. He has served as Minister of the Interior, acting president and head of the National Agrarian Institute and governor of Monagas State.

Described as an excellent administrator, he is basing his campaign on a continuation of the Pérez administration's economic, social and educational development programme in Venezuela.

Even so, the government party, Acción Democrática (Democratic Action), will have a tough battle to regain the presidency since many Venezuelans are highly dissatisfied with chronically poor public services, are critical of rising prices and government waste and tend to blame these problems on the current administration.

Under the Venezuelan constitution, Sr. Pérez—like all other incumbent chief executives here—cannot return to the presidency for ten years.

More than 4m. Venezuelans voted in the elections 20 years ago when Sr. Pérez won the presidency. Around

6m. are eligible to vote this year, out of a national population of 13m. Eight candidates representing eight parties are in the running at present, and more expected to join the fray later on.

In 1973, President Pérez, representing AD, won with 48.8 per cent of the vote. The candidate for the chief opposition party, the Social Christian (COPEI), earned 36.7 per cent. Numerous other parties entered those elections but none received anything approaching 10 per cent.

The far Left parties together took just under 10 per cent of the 4.1m. valid votes cast, and other minor groups shared the remainder.

The race this year is primarily between the two "establishment" parties (AD and COPEI), both of which espouse a form of Centre-reformist philosophies. In fact, it will be extremely difficult to tell the two apart this time around since their positions on

most matters are nearly the same. In the four elections held since 1958, AD has won the presidency three times while the COPEI candidate, Dr. Rafael Caldera, captured the presidency

WORLD TRADE NEWS

Fraser to visit Tokyo for major economic talks

BY KENNETH RANDALL

CANBERRA, April 4.

THE AUSTRALIAN Prime Minister, Mr. Malcolm Fraser, will visit Tokyo for two days in April to explore the various international trade and economic policy discussions over the rest of this year might be improved.

The talks, starting in Tokyo on April 19, fall within a broad understanding reached recently by the two governments.

Wherever practicable each has agreed to try to consult the other before entering into important discussions with a third party or international organisation.

Australian Government sources said today that Mr. Fraser had suggested that the cause of a growing concern that failure to make substantial progress towards trade expansion and economic policy coordination in coming months could lead to "disillusion, bitterness and even tension" in the international community.

The Government source said that given the pressure on the American dollar and current prospects for the GATT multi-lateral trade negotiations, UNCTAD and the economic summit to name only some of the factors "there could be greater protectionism with fiercer competition for shrinking mar-

Duty up on wood screws

BY KENNETH RANDALL

CANBERRA, April 4.

AUSTRALIA IS imposing a temporary protective duty of 40 per cent on imports of wood screws from all sources except New Zealand, Papua New Guinea and some specified developing countries, which will retain preferential duty arrangements.

Hong Kong and Taiwan have been excluded from the developing countries because their exports of wood screws were found by the Government's temporary assistance authority to have caused "significant disruption" of the local industry.

A Government announcement

night, Mr. Fraser stressed that he would not be raising bilateral issues. He expected the talks to cover the general problem of the world economic situation, world trade and the north-south dialogue for international economic development.

Mr. Fraser said the world faced significant economic problems. He had suggested to Mr. Fukuda that there would be an advantage in their meeting before Mr. Fukuda left for Washington. The Japanese leader had readily agreed.

to-day said the protective measures would help local manufacturers to contain their costs by increasing production volume and to stabilise employment. It should also give them time to complete a programme of re-organisation and product rationalisation.

The Government has also announced tariff quotas on imports of wool worsted yarns and wool blend yarns, backdated to March 1. The annual quota for these yarns has been set at 1.1m. kilograms with additional duty of \$42.50 a kilogramme payable for above-quota imports.

equipment have not so far been substantiated, beyond the now largely completed deal for a steel complex with rolling and continuous casting facilities at Wubao. Recent Chinese trade delegations to West Germany have, however, included experts in the coal, electricity generating and electrical engineering industries.

During his stay here Mr. Li is meeting Chancellor Helmut Schmidt and the Foreign Minister, Herr Hans-Dietrich Genscher, in addition to his contacts with business and economic officials.

Chinese Minister in W. Germany

BY ADRIAN DICKS

BONN, April 4.

THE CHINESE foreign trade Minister, Mr. Li Chang, is expected to visit West Germany as guest of Count Otto von Moltke, the West German Minister of Economics, in the course of which he is to visit several industrial plants in different parts of the country.

Mr. Li's visit, reciprocating a similar visit by Herr Hans-Dietrich Genscher to China in 1975, is the first to West Germany by a Chinese cabinet minister. It follows his signature in Brussels yesterday of China's first five-year trade agreement with the European Community.

West Germany is China's largest single trading partner among the nine, with a two-way volume of trade that reached some DM1.8bn. in 1977. Because this is at present split almost exactly two-way, in Germany's favour, Mr. Li is known to be looking for opportunities to increase Chinese exports to the Federal Republic. At present, these consist principally of agricultural products, sundry raw materials and textiles.

On the German side, periodic rumours of major contracts for industrial installations and

European car makers discussed tariff rise

BY TERRY DODSWORTH, MOTOR INDUSTRY CORRESPONDENT

AN INCREASE in the common European tariff on automobiles has been informally discussed among European vehicle manufacturers and within producer associations, according to a new study of Japanese-European trade relations.

The tariff, which would affect all cars coming into the Community from other trading areas, would be designed to give the European industry a chance to form stronger and larger units behind restrictive walls.

European manufacturers are aware that requesting a raise in tariffs would constitute a departure from past policies but some of them are in favour of organising international trade on a new basis, the report says.

The study, prepared by the Batelle Geneva Research Centre for a group of leading Japanese academics, adds that the likelihood of such a proposal being adopted seems extremely low. That is because of technical obstacles in instituting such a duty—such as the degree of the increase, the difficulty of making the tariffs non-discriminatory, and the problems of restructuring within Europe—as well as wider issues such as the general European commitment to lower tariffs.

The report concludes that a better course would be to adopt the objective of eliminating non-tariff barriers and an attempt to equalise competitive conditions for foreign manufacturers.

It argues that adopting European cars to Japanese conditions ought to be investigated in more detail, and that that might be done jointly or individually by European companies.

The report coincided with an article in a West German newspaper yesterday in which Mr. Seisai Kato, president of Toyota Motor, said that Japanese motor companies want more foreign manufacturers to compete with them in Japan.

National and international competition contribute to the health of the industry worldwide, he said in an article in the Frankfurt Allgemeine news paper.

German dam contender

BY DIANA SMITH

RIO DE JANEIRO, April 4.

BROWN BOVERI'S West German subsidiary is offering a \$2bn. package to finance construction of a new Brazilian hydroelectric scheme.

The Xingo hydroelectric project, delayed through lack of finance, is on the São Francisco river in the north-east.

Brown Boveri has backing from a pool of German banks led by the Commerzbank Dresdner Bank and Deutsche Bank, plus a \$50m. credit from Germany's aid to developing countries.

The Xingo scheme, in a natural gorge, would require an ex-cess-over the next two years.

Honeywell Japan venture

BY DOUGLAS RAMSEY

TOKYO, April 4.

TEMPTED BY continued high growth in the world's second largest market for data processing equipment, the American company Honeywell has decided to take an 80 per cent stake in a new joint venture with a Mitsubishi to market Honeywell systems in Japan.

The company announced in Tokyo and Minneapolis today that the two have signed a "memorandum of intent" towards setting up the new company, to be called Mitsubishi H.I.S., subject to final negotiations and approval by the Japanese Government (which screens all incoming investment).

Honeywell Information Systems (H.I.S.) in Tokyo said it expected the procedures to take about 120 days. It hoped the new company could get off the ground in July.

Honeywell thus becomes the last of the main U.S. data processing companies to take a capital stake in the Japanese computer market, Mitsubishi

H.I.S. would be initially capitalised at ¥1bn, 80 per cent from Honeywell, 20 per cent from Mitsubishi Office Machines (MOM), sole sales agent for Honeywell computers in Japan.

By contrast, IBM Japan is a wholly owned subsidiary of IBM and is the largest single company in the Japanese industry (with sales in 1977 just over \$1bn.). NCR Japan is a 100 per cent subsidiary of the American company, and the Univac division of Sperry Rand has a 34.7 per cent stake in Nippon Univac, which builds subsidiaries in Japan.

Honeywell gave no indication of future expansion plans (about \$10bn.) and foreign manufacturers had taken 42.5 per cent of the market.

More recent entries include Honeywell's full-scale entry into the Japanese market may help to increase the proportion of sales by foreign companies to half or more of the Japanese market in 1977, the value of all-purpose computers operating in Japan was ¥2,500bn.

As part of the buy-back agreement under which Finland bought its Hawks, the United Baltic Corporation of London has ordered a 7,200 ton Ro-Ro ship from the Finnish shipbuilders Rauma-Repoli, Lorne Barling writes. The value of the contract is understood to be about \$3.5m. and a similar order is expected from UBC's associate, Polish Ocean Lines, in the near future.

A 44m. order from Hawaiian Air, Hawaii's biggest airline, has been received by Short Brothers, the Belfast aircraft manufacturer, for three SD-330 aircraft for delivery late this year and early next. Hawaiian air is the seventh, and largest, airline to buy the SD-330 for scheduled services.

British Aerospace, the nationalised aircraft manufacturer, has won another export order for the Hawk jet trainer and light combat aircraft—this time from Indonesia for eight aircraft, worth about £25m., writes Michael Donne, Aerospace Correspondent.

That follows the signing late last year of the £100m. order for 50 Hawks for Finland, a deal which is subject to the U.K.'s buying a comparable volume of goods from Finland or helping Finland to sell its goods elsewhere.

The order from Indonesia Eastern Airlines, which has been leasing four of the type since December last year. Only an agreement between the U.S. com-

pany and its lenders now stands in the way of a final contract. Last month M. Marcel Cavallé, the French Transport Minister, said the aircraft offered "sure prospects" of selling more than 300.

Counting the latest order, Airbus Industrie has sold 70 of its highly successful wide-bodied aircraft and has 37 further options.

Two days ago, the Franco-German - Spanish consortium received another big boost when it reached agreement with the operators of New York's La Guardia Airport to enable the A-300 to use the airport from November 15.

The agreement removed one of the last obstacles to the proposed sale of 23 A-300s to goods elsewhere.

Armand Hammer, chairman of Occidental, said on a recent visit here that his company would spend another \$290m. in Peru over the next two years.

Pay now-Live later

Swedes cut pulp excess

BY MAX WILKINSON

EXCESS PULP stocks in Sweden have been reduced by 225,000 tonnes or almost half in the first three months of 1978, it was disclosed yesterday.

Mr. Bo Wergens, managing director of the Swedish Pulp and Paper Association, said he expected inventories to be reduced to normal levels within a few months. At the beginning of last year, pulp manufacturers had excess stocks of about 1m. tonnes as a result of falling to cut back production during the recession in demand.

Mr. Wergens was commenting in the annual statement from the Swedish Pulp and Paper industry for 1977.

Mr. Wergens suggested that prices might improve this year through increased consumption and production of paper and paper board in the U.S. and Western Europe.

Swedish shipments to the international pulp market rose 10 per cent in the first three months of 1978 compared with

TV centre for Saudis

A contract worth Riyals 2.1bn. (\$US\$800m.) was signed on Monday between the Saudi Ministry of Information and Dyckerhoff U. Widman of Munich to build a complete new television complex in Riyadh, James Buchanan writes from Jeddah.

The contract calls for building and furnishing a 200,000 square metre complex with a 170-foot transmission mast, news film and video production studios, control rooms, film processing labs and the station's own power generator.

Saudi Arabia wishes to improve coverage of Saudi affairs abroad by increasing locally generated material.

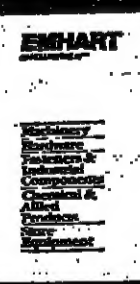
Textile watchdogs

Finland, India, South Korea and Thailand have been named to serve this year alongside the EEC, United States, Japan and Colombia on an international watchdog body supervising world trade in textiles. The GATT Textiles Committee approved the appointments to the Textile Surveillance Body, chaired by Mr. Paul Wurth, of Switzerland.

\$600m. refinery plan

Two Fluor Corporation subsidiaries have received contracts worth more than \$600m. to upgrade Venezuela's Amuay Refinery from Petroleos de Venezuela's Lagoven subsidiary. Reuter reports from Irvine, California. The project will provide the flexibility necessary to cope with fluctuations in the residual fuels market.

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Applicants should preferably be under 45 years of age and must have (a) good general education, preferably with a degree from a Hong Kong or British university or an appropriate recognised professional qualification or equivalent; (b) substantial post-qualification experience, preferably in a central banking organisation, in more than one of the following fields: monetary policy

For further information and an application form, telephone 01-499 9821 ext. 41 or write to the Hong Kong Government Office, 6 Canton Street, London W1X 3LB, quoting reference CS/DM/A at the top of your letter. Closing date for return of application forms: 21st April, 1978.

*Based on exchange rate HK\$9.00 = £1.00. This rate is subject to fluctuation.

Hong Kong Government

HOME NEWS

Shipbuilding orders hit 10-year low

BY OUR INDUSTRIAL STAFF

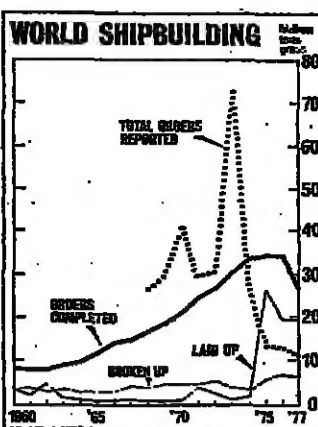
THE AMOUNT of over-capacity in the world's shipbuilding industry is "frightening," Mr. Robert Huskisson, chairman of Lloyd's Register of Shipping, says in his annual report published yesterday.

By the end of 1977 the world shipbuilding order book stood at its lowest for more than ten years. In four years the annual world-wide order book has fallen from 2.5m. gross tons in 1973 to 1.1m. gross tons in 1977.

The future looks gloomy. Last year Mr. Huskisson had predicted more stability in the market by 1980, now he says this is still a possibility, "but only a remote possibility."

The report shows Britain fifth in the list of shipbuilding nations last year, taking 4 per cent (slightly under 450,000 gross tons) of the total 11,091,103 gross tons ordered. Japan had 22.1 per cent, followed by South Korea, Norway and Sweden the others ahead of Britain.

Mr. Huskisson does not consider that a vigorous scrapping policy would solve the problem of overcapacity to be just met and forecasts that in 1978 the total order would be for about 12m. gross tons—less than the productive capacity of Japan alone.



The tanker problem remains the most severe with 350 ships laid up, deliveries still being made and thousands of millions of pounds outstanding on mortgages.

Order books are now so thin that capacity may have to be reduced by up to 50 per cent. The "knock-on" effect is already producing over-tonnage in the dry cargo market as owners switch from tankers to bulk carriers and Mr. Huskisson said new orders, when they come, will be for more and more

House prices up 5% this year says Nationwide

BY MICHAEL CASSELL, BUILDING CORRESPONDENT

EVIDENCE THAT house prices were beginning to accelerate more rapidly at the start of 1978 than at any time since the last price explosion five years ago came from the Nationwide Building Society yesterday.

According to the Nationwide, average house prices rose by 5 per cent in the first three months of this year against an average of only 1 per cent in the previous quarter. During last year as a whole, they increased by an average of about 8 per cent.

The average rate of increase seems, however, to have been generally lower than was being suggested when the Government stepped in to call for a reduction in mortgage lending in an attempt to prevent prices from rising too rapidly.

The Nationwide figures, however, conceal some marked regional price increases, calculated by the Society to have been as high as 15-20 per cent in some areas.

Mr. Leonard Williams, chief general manager of the Nationwide, said last night that there was now evidence to suggest that the market was already "topping out" in terms of prices and that rather more properties were being released on to the market in areas where they had recently been scarce.

The Nationwide, the country's

third largest building society now leading about 5 months. Of that figure, going on ordinary housing and is therefore cut in lending limits.

Intervention

Without this intervention Nationwide would not have been lending about 5 house purchases in the way, plus another 5 existing borrowers or people switching from authority mortgages.

Prices rises would, Mr. Williams emphasised, have been at a lower level in the first quarter of the Nationwide states that the average 5 per cent increase recorded in the first quarter was exceeded in London, the Midlands and the North.

For the first time since the average annual increase of 10 per cent in 1977, the average annual increase in house prices was slightly higher than the average increase in average earnings in the same period.

Mr. Williams believes that earnings were likely to be about 14 per cent, but that the average house price increase would be 15 per cent, greatly exceeding that figure.

Toshiba seeks TV link-up with Rank

BY MAX WILKINSON

TOSHIBA, the Japanese electrical giant, is hoping to link up with Rank Organisation for the production of its black-and-white television sets and audio systems in the U.K.

It has proposed that Rank should build the Japanese resources under licence, to replace the units formerly imported from Toshiba's factories in Korea. These imports were curtailed by the Government last year.

The arrangement would help to bring more work to Rank's production lines which are common with those of most other U.K. manufacturers, are operating at well under full capacity. Executives from Toshiba's U.K. subsidiary are at present discussing the plan at the company's headquarters in Japan.

Toshiba has also been interested in the possibility of having its 26-inch colour sets manufactured under licence in the U.K. However, this has not proved possible so far, because of

restrictions of the T. licence for the P.A. system. A link-up with Rank, however, gave the wider co-operation.

British set makers and companies, whose resources are recognised to be superior to those of Toshiba's. General Company maintained silence about reports that it might sell its television manufacturing division to

Sales battle

GEC's television sales have failed to make an advance for some years. With 10 per cent of the home market, it is not seen as optimistic.

Granada's rental of GEC's major customer of the rest of its products is the only company in the 40 per cent of the available for direct sale to rental.

Sales slide forces Deco to close Midlands plant

BY JAMES McDONALD

DECCA, WITH a 7 per cent share of the U.K. colour television set market, is to close down the colour TV section of its West Midlands factory at Willenhall and the 350 workers involved have been given 90 days' notice. Production of audio units will continue there but the TV section is the largest in the plant.

Deco said yesterday that the eight-year-old factory had been making considerable losses in its colour TV section for the past two years. The unit, which cost 2,000 sets a week but had been running at half capacity "for a long time."

Colour TV production will now be concentrated in Deco's other plant at Brigholm, said Mr. Robert Atkins, Deco's managing director. Radio and television Colour TV set capacity there was about 4,000 units a week but

output at present around 3,000 weekly. With new technology the corner, he added, capacity would rise to 5,000 units a week, but there was no sign of demand rising to a greater potential.

He gave as reasons the closure of the plant, from about 2 years to 1.5m. units, combined with slim margins of the low level of TV prices in the U.K.

"Price margins last year were very unprofitable. To improve this year, we have already gone up. Mr. Watkins said that was not the U.K. manufacturer who approached Hitachi with a merger.

CBI warning on industrial policy

BY JOHN ELLIOTT, INDUSTRIAL EDITOR

A WARNING that governments should not expect their policies to have an immediate effect on the development of new industrial projects was issued yesterday by the Confederation of British Industry.

This view was based on the findings of a survey conducted by the CBI which shows that most new industrial projects take between two and a-half and four years to develop and that some larger investments may take as long as 10-15 years.

This points to the conclusion that Government policies which seek to affect investment cannot be expected to show full results in the short term," declares the CBI. Consequently, it adds, governments need to maintain stability in policies affecting industry.

The limited impact of Government specific industrial assistance schemes on investment decisions also emerges from the survey, which says: "The availability of Government assistance was only one among many relevant factors in the decision-making process, especially if there was any uncertainty over the permanence of measures of assistance."

This led the CBI to conclude that frequent changes in such incentives would prevent them having the full effect intended. The survey's results therefore help support the campaign by leading industrialists concerning the need for political parties to refrain from developing new

policies on industrial intervention. But the initial idea for the survey stemmed partly from concern that both the last Conservative Government and the present administration have expected companies to bring new investment projects into production too quickly following changes in political policies.

"It has become fashionable in some quarters to criticise British industry for insufficient investment," says Sir John Mathews, CBI director-general, in an introduction to the survey. "Such criticism is based on ignorance of the investment record of British companies."

Developing this theme, the survey says: "Accurate information on investment lead times is scarce, yet it is an essential ingredient in the formulation of policies affecting investment. Rapid changes in Government policy are consistent with neglect of this factor, leading Government to believe that a particular policy has failed, and therefore, introducing further policy changes."

The CBI's survey is based on postal replies from member companies covering 136 investment projects, backed up by 24 case studies.

Investment Lead Times in British Manufacturing Industry: Report of a CBI working party on an appendix of reports on individual case studies. £10. CBI, 21, Tothill Street, London, SW1.

Tootal rationalisation will cost 536 jobs

BY ANTHONY MORETON, REGIONAL AFFAIRS EDITOR

THE DEPRESSED textile market claimed another victim yesterday when Tootal announced that it was to shut its Sunnyside Spinning factory in Bolton, with a loss of 548 jobs.

The company also intends to rationalise production at the Sunnyside Weaving plant in the town, releasing 180 of its 482 workers. It is expected that the cuts will be made in July.

The Tootal decision is another blow for the North West, still reeling from the recent closures announced by Lucas, GEC and British Leyland, and it will bring the renewed pressure for Government action.

Sunnyside Weaving has been incurring substantial losses on dyeing, printing and finishing. In the clothing division is to spend almost certainly have been made £3.5m. of which the larger portion had it not been for the Temporary Employment Subsidy.

Sunnyside Spinning is a slightly different case. The factory was built in the last century, and Tootal considers the cost of keeping it in operation too high especially as the five other spinning units in the North West, one in Northern Ireland and the other in Derbyshire—are much younger.

Tootal is to spend £4m. on a major re-equipment of these five plants, part of a £20m. investment programme for 1978 and 1979 which it also announced yesterday. The rest of the spending covers £4m. on the thread division, between £3.5m. and £4m. on fabric manufacturing and between £4.5m. and £5m. on dyeing, printing and finishing.

In the clothing division is to spend almost certainly have been made £3.5m. of which the larger portion had it not been for the Temporary Employment Subsidy.

Edwardes warns on 'too high' market hopes

MR. MICHAEL EDWARDES, chairman of British Leyland, warned yesterday against optimistic expectations of the company's ability to hold onto a U.K. market share of 28 per cent.

He told the Foreign Press Association that the improvement in sales last month, believed to be about 25 per cent or even 28 per cent of the market against 21 per cent in January—followed an intensive marketing campaign and an upsurge in confidence.

Any attempt to change the balance of control in such a way that voting is done by politicians rather than sportsmen and in a way that does not represent the weight of participants in the company must be resisted."

The National Union of Students yesterday elected its first black president. He is Mr. Trevor Phillips, 24, whose parents came to Britain from Guyana in 1952.

In the election at the NUS conference in Blackpool, Mr. Phillips polled more votes than all his six opponents put together. Mr. Phillips, the candidate of the Black and Labour students, will take over in the autumn.

New plant Magna, the U.S. specialty chemicals company, is investing £2m. in a new plant at Graythorpe, Leicestershire.

Mr. Brian Wiggins, a vice-president of the company, said yesterday that the bulk of production would be aimed at export direct for use in oilfields in Europe, Africa and Asia.

Agency holding The Welsh Development Agency has taken its first majority holding in a Welsh manufacturing company—a £72,000 investment in a new type of ticket vending system.

The investment, in the form of a shares and a loan deal, gives the agency 60 per cent of the equity capital of the new company, Williams Automatic Revenue Controls.

Howell warning Attempts to bring international sports and international sporting bodies under the control of political organisations is a matter of great concern, Mr. Denis Howell, Minister for Sport, told a meeting

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COMPANY NOTICES

NEGIT S.A.
Société Anonyme
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DIVIDEND NOTICE

Notice is hereby given that, pursuant to a resolution of the Annual General Meeting of Shareholders of NEGIT S.A. on 31st March, 1978 payment of US\$ 0.11 per share will be made to shareholders registered on 14th March, 1978.

Dividend cheques will be mailed to registered shareholders. The Paying Agent, Banque de Paris et des Pays-Bas pour le Grand-Duché de Luxembourg, Luxembourg, 22nd March, 1978.

ALGERIAN BANK NEDERLAND N.V.
(Incorporated in the Netherlands with its registered office in Amsterdam)
Shareholders of the company are invited to attend the ANNUAL GENERAL MEETING of the company to be held on Thursday, 27th April, 1978, at 10.00 hours, at the Hotel de Ville, 100, rue de la Harpe, 75004 Paris, France.

The agenda of the meeting is as follows: 1. To approve the financial statements for the year ended 31st December 1977. 2. To elect the members of the Board of Directors for the year 1978. 3. To elect the members of the Supervisory Board for the year 1978. 4. To elect the members of the Board of Auditors for the year 1978. 5. To elect the members of the Board of Directors for the year 1979. 6. To elect the members of the Supervisory Board for the year 1979. 7. To elect the members of the Board of Auditors for the year 1979. 8. To elect the members of the Board of Directors for the year 1980. 9. To elect the members of the Supervisory Board for the year 1980. 10. To elect the members of the Board of Auditors for the year 1980.

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ANNOUNCEMENTS

With effect from 1st February 1978

Mr. Gordon J. Macle
has been appointed
Marketing Manager of
VESUVIUS CRUCIBLE CO. LTD.
which is responsible for the U.K., Australia, New Zealand, South Africa and the Far East. Previously Mr. Macle had been in charge of the Vesuvius International Corporation Office in Brussels.

With effect from 6th March 1978
Mr. Alan J. Hill
has been appointed Sales Director of
VESUVIUS CRUCIBLE COMPANY LIMITED
with responsibility for the U.K., Australia, New Zealand, South Africa and the Far East. Mr. Hill was formerly General Sales Manager with A.P. Green Refractories Limited.

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Road budget put at £300m a year for next decade

BY IAN HARGREAVES, TRANSPORT CORRESPONDENT

A GOVERNMENT review of all trunk road schemes has so far produced savings of £70m, and more can be expected, according to a White Paper published yesterday.

The policy statement envisages a stable annual road budget of about £300m, for the next ten to 12 years, by which time the Government expects most of England's road problems to have been overcome.

But during this period, the

"The road building boom of 1970-71 when £680m. at today's prices was spent will never return."

Department of Transport will continue to re-examine roads in the preparation pool on design standards and priority listing in the light of the scaled down traffic forecasts produced earlier this year in response to the findings of the Leitch Committee report on trunk road assessment.

Marked

The review has so far led to the scrapping of 11 schemes and substantial downgrading of a further 24. More than 180 schemes in a total preparation pool of 400 are also listed in the White Paper as being of yet undetermined standard. Under the terms of pre-1977 roads policy most of these projects were earmarked as being at least dual carriageways.

Department of Transport officials expect the initial review of both standards and priorities to take from six to nine months and it seems certain that many other plans will be reduced in scale or turned down in the process.

The White Paper's budget framework for the next decade, of £300m. a year, accepts that the road building boom of 1970-71, when £680m. at today's prices was spent, will never return.

It argues, however, that this situation is good for the road construction industry because it offers a period of stability free from the wild swings of Government spending in the past. The view of Mr. William Rodgers, Transport Secretary, is that he could not justify a

budget greater than £300m. even if the resources were available.

The White Paper accepts that demand for road space will increase for the rest of this century, although more slowly than in the past. But it suggests that "not all demands for transport and personal mobility can or should be met."

It says that traffic could grow by anything between one-third and four-fifths by the end of the century.

The Government notes a growth in public concern about the effects of road building on the environment, but says that industry still requires and deserves many road improvements.

For this reason, the Government's existing priorities of the M25 London Outer Orbital Road and the roads to the ports remain unaltered.

It says the Government will in future favour a more selective approach to road building, having rejected the idea of a fixed blueprint for the roads network.

On individual schemes, the Government undertakes to build on the criticisms and suggestions of January's Leitch report. The Transport Department has already started to use the Leitch-style "framework" approach to assessment, where an attempt is made to give greater weight to environmental gains and losses which cannot be expressed in simple money values.

Sympathy

The White Paper also agrees with the Leitch report that more should be done to apply the revised criteria to the road schemes of local authorities. The Government will also look sympathetically at the idea of giving local authorities a larger slice of the proposed roads budget.

Another trend, supported by the White Paper is towards more open decisions, a theme dealt with in more detail in yesterday's White Paper on Highway Industry Procedures. The roads statement does, however, warn of the need to avoid blighting property by too early a release of information about alternative schemes.

On expenditure, the White Paper proposes, alongside the frozen £300m. construction budget to maintain spending on maintenance at current levels. The structure of the Transport Department's road building

SCHEMES WITHDRAWN FROM TRUNK ROAD PROGRAMME, TO BE REPLACED BY MORE LIMITED SCHEMES

Route Number	Scheme Withdrawn	Replacement Scheme
A1/A63	Sandy Junction, Bedfordshire	Minor Improvements
A5	Shrewsbury-Rhoswiel, Salop	Smaller schemes including Oswestry and Nesscliffe Bypasses
A10	Brandon Creek-Southery, Norfolk	Minor Improvements
A11	Scump Cross-Newmarket, Cambridgeshire	Minor Improvements
A27	Lewes-Beddingham, East Sussex	Minor Improvements
A41	A405-Berrygrove Junction, Hertfordshire	Minor Improvements
A41	M25-Whitchurch Bypass, Salop	Minor Improvements
A45	A1093-Levington Heath, Suffolk	Minor Improvements
A47	East Dereham-Hockering, Norfolk	Minor Improvements
A47	Hockering-Easton, Norfolk	Minor Improvements
A47	Kings Lynn-East Dereham, Norfolk	Minor Improvements
A47	(1980/82)	Minor Improvements
A47	Kings Lynn-Peterborough, Norfolk/Cambridgeshire	Minor Improvements
A49	Hereford-Shrewsbury, Hereford and Worcester	Minor Improvements
A49	Hunger Hill-Dorington, Salop	Minor Improvements
A49	Shrewsbury-Whitchurch, Salop	Minor Improvements
A59	East and West Marton Diversion, North Yorkshire	Minor Improvements
A127	GLC Boundary-Southend, Essex	Minor Improvements
A127	Rayleigh Weir, Essex	Minor Improvements
A3392	Basildon-Northern Bypass, Hampshire	Minor Improvements
A458	A5 West to the Welsh Border, Salop	Minor Improvements
A465	Llangunallt (Welsh Section) Hereford and Worcester	Minor Improvements
A483	A5 South to the Welsh Border, Salop	Minor Improvements
A595	Thursby-Carlisle, Cumbria	Minor Improvements
A1079	Market Weighton-York, Humberside/North Yorkshire	Minor Improvements

administration is also to be reviewed. A team has been appointed to examine the role of the regional highway construction units, established in 1967 to implement the roads programme.

In a description of schemes in the preparation pool, the White Paper says that 24 schemes costing £90m. have been dropped from the programme or downgraded to be replaced by schemes totalling £20m.

In future, options on the size of a scheme will be kept open for as long as possible, but the paper adds that where plans are advanced to the point of being ready to let contracts, the two to three year delay resulting from a major design change may not be feasible.

Finally, it says the review is not a once and for all activity, but will continue to take account of changing circumstances. It adds: "From now on, no scheme will be published or will go to inquiry unless it accords with the principles set out, in the light of the recommendations of the Leitch Committee, in this White Paper."

Policy for Roads: England 1978. Cmnd. 7132. SO £1.60.

Pensions rules ignorance criticised

BY ERIC SHORT

NEARLY 100,000 employees are likely to retire this year on smaller pensions than they are legally entitled to, because of their employers' ignorance of pension legislation and inland Revenue practice, according to a leading firm of pension consultants.

Most pensions are based on final salary and for many employees this will have been kept down by successive phases of the pay policy. But the inland Revenue will allow the employer to calculate salary for pension purposes taking into account recent inflation.

There are several definitions of final salary for pension purposes listed by the inland Revenue and two are relevant in this particular case.

The first is that one can take an employee's salary in any one year of the last five years to the date of retirement and revise this salary in line with the cost of living.

The other is to take the average of any three years over the last 13 before retirement and revalue them in line with the cost of living.

Mr. Graham Puttergill, chairman of Antony Gibbs Pensions, quoted as an example an employee earning £11,000 in 1973 and now earning £15,000. Normally he would expect a pension of £10,000.

But he can base his pension on his 1973 salary and revalue it in line with the Retail Price Index. This has increased by 88.4 per cent. since 1973, so his pension could be based on two-thirds of £20,727, that is, £13,818.

The Superannuation Funds Office of the inland Revenue pointed out yesterday that in many cases considerable sums would have to be put into pension schemes by employers to meet the increased liability.

Report justifies Midlands site for exhibitions

BY OUR OWN CORRESPONDENT

THE DECISION to build the National Exhibition Centre in the West Midlands has been and contractor services, but of a Government report disclosed yesterday.

Two years of research, carried out by the Joint Unit for Research of the Urban Environment at the University of Aston, and commissioned by the West Midlands office of the Department of Environment, showed that in 1976-77 51 per cent. of the total exhibition and conference market available from British industry was obtained by the centre.

The report said that during that year, £31.4m. was spent by visitors and exhibitors, and that almost 90 per cent. of that figure came from trade shows and not public exhibitions.

The centre had created 1,192 part-time or full-time jobs and 1,110 casual jobs in the area, man who wishes to entertain in the immediate vicinity.

The report highlights an additional income of the area of £10.3m., but later adds that it could be considerably greater.

In 1976-77 exhibitors spent a total £14.5m. on exhibition stands and contractor services, but of that figure, less than a third (£4.5m.) was won by West Midlands companies.

Attendance

Speculation that a Midlands site for the centre would be unable to compete with one in London has been disproved.

During 1977, the Mining Exhibition more than doubled its attendance, and 61,805 attended the International Business Show, compared with 39,000 when it was staged in the capital in 1975.

But the centre has not been without its problems. The report points to a need for further accommodation and restaurants in the immediate vicinity.

The lack of such facilities poses difficulties for the business, man who wishes to entertain in the immediate vicinity.

A need also exists for more information and better promotion of tourist and leisure facilities elsewhere in the area, especially in Birmingham.

System X telephone exchange unveiled

BY JOHN LLOYD

SYSTEM X, the Post Office's new computer-controlled telephone exchange, was unveiled at the 'Communications 78' exhibition in Birmingham yesterday.

The system is still in the last stages of development, but the Post Office was able to present a number of models demonstrating the system's advantages and its ability to interface with existing electro-mechanical equipment.

The first trial-run will be in October next year, when a small prototype System X exchange will be the centrepiece of the Post Office's exhibit at the Third World Communications Exhibition in Geneva.

The system will begin to go into the U.K. network by 1981 at the earliest, when it will be introduced into a London exchange and the Cambridge exchange.

One of its chief competitors will be the Ericsson AXE exchange, marketed both by the Swedish company and by Thomson-CSF, which also had large stands at the exhibition.

The exhibition was opened by the Duke of Kent.

Private steel spending may rise

A CAUTIOUS HINT of further-could well be looking at the possibility of installing one or even two more in the next few years. day from Mr. Graham Wise, the group managing director of the Sheffield-based Edgar Allen Balfour group, now the leading U.K. high-speed and tool steel maker.

Unveiling a new £2.35m. forging machine at the group's Openshaw works in Manchester, Mr. Wise said that if, as expected, the machine justified itself over the next few months, his company private special steel industry.

Mr. Wise said that for many years he had been studying new technology which might be used to replace some of the specialised rolling mills still used in the British steel industry. He was confident the Austrian GFM machine fulfilled the requirements needed.

Openshaw plant was sold by British Steel Corporation in 1972. Operating a "no redundancy" policy, Edgar Allen Balfour has turned the works into a profitable operation, said Mr. Wise.

Taking the heat out of inquiries

THE GOVERNMENT'S plan to take the heat out of public inquiries into road schemes will be included in a new system of nominating inspectors and

should have the right to challenge a central Government decision to put up a road plan in the first place.

This type of decision, the paper says, belongs to ministers answerable to Parliament.

"The purpose of highway inquiries is not to enable local objects to debate national issues nor to overrule the democratic decisions of Parliament."

The White Paper goes on, however, to make numerous concessions to the objects. It says that in future, inspectors, who have been characterised by the anti-road lobby as puppets of the Department of Transport, will be nominated directly by the Lord Chancellor rather than simply being selected by Government Ministers from a list approved by the Lord Chancellor.

In future, the Department will publish alternative routes concurrently with the draft order for the preferred route so that the inquiry can look at all options.

publish any brief or guidance notes given to inspectors.

open to inspection reports from consultants and the Landscape Advisory Committee.

give objects the chance to call for a re-opening of an inquiry where they can point to new evidence contradicting an inspector's findings.

set up pre-inquiry procedural meetings.

allow corrections of fact in draft inspectors' reports.

television filming of inquiries.

will be permitted so long as it does not "influence the proceedings."

In the Roads White Paper also published yesterday, the Government summarises its aim on public inquiries as "to make available for inquiries—or earlier when the information is available—the facts and analysis on which its proposals depend."

Report on the review of highway inquiry procedures. Cmnd. 7133. SO 35p.

RAC chief attacks protestors

Financial Times Reporter

AN ATTACK on environmentalists, whose protests had delayed completion of vital motorway links in the Midlands, was made in Birmingham yesterday by Sir Clive Bosson, RAC chairman.

Sir Clive said: "Lorries which at present choke up little villages will take full advantage of what, with the completion of the M40 and M42, will be a comprehensive Midlands motorway network."

"Those who object on the grounds of environment should come out from their caves, when they will find that the dinosaur is now extinct and the wheel has been invented."

Once you fill in our coupon you'll be well and truly in the soup.



Which will probably be a considerable improvement on where you are just now.

If you are a company director, or senior executive, we'd like to present you with a sample of our free twinnpack offer. Two for the price of none, if you like.

Can one contains a very special 'Consommé of Pheasant', cooked in the traditional manner, flavoured with sherry and delicate spices. A small and symbolic sample of Scotland's prosperous life style. Which you may enjoy, whilst you reflect upon the contents of tin two.

The second can contains a very tempting 'Resume of Cumbernauld', to excite the palate and sharpen

the appetite. It provides food for thought. Thoughts, for example, about one of the country's most successful new towns, established for 21 years. A town new in name and new in spirit, but old in experience. A town based right in Scotland's heartland, within 40 minutes of Edinburgh and Glasgow airports and little more from Prestwick. Midway between two major ocean ports, and right at the centre of the Scottish motorway network.

Thoughts about financial advantages in the form of generous grants, attractive loans—the best on offer in Britain.

Thoughts about available and willing skilled labour with one of the best industrial relations records in Britain.

And thoughts about a superb location with just minutes between your ideal home and your ideal office. Mountains, lochs and rivers a short drive away. Just about every facility for sport and recreation within easy reach.

So be warned. Our free offer could give you a taste for a whole new life style. But what a menu.

Dear Brigadier Cowan, I'm hungry for opportunities. Send me your Consommé and Resume to give me food for thought.

Chief Executive, Brigadier Colin Cowan, Cumbernauld Development Corporation, Cumbernauld House, Cumbernauld, Scotland G67 3JH

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Position _____

Company _____

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Tel. No. _____

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Call your travel agent and ask about TWA's new Budget and Standby fares to Los Angeles and San Francisco. (These fares are subject to a seasonal increase from July 1st.)

TWA carries more scheduled passengers across the Atlantic than any other airline.

TWA No.1 across the Atlantic.

HOME NEWS

New tax rates on company cars tomorrow

THE Government has raised the taxable value of company cars by approximately 10 per cent, and increased the level at which the two higher rates are introduced from £8,000 to £8,500.

The rates come into effect at the beginning of the new financial year to-morrow and will affect the liability to tax of directors and employees earning £7,500 or more.

TAXABLE VALUE OF COMPANY CARS

Under 4 years	Over 4 years
Up to 1300cc or £2,500	190
1301-1800cc or £2,500-£3,499	250
More than 1800cc or £3,500	380
£8,001-£12,000	550
More than £12,000	585

Based on cylinder capacities where available, otherwise on market values up to £8,000. Above £8,000 based on value.

Rail chief is Voice of State Boards

By Our Industrial Editor

MR. PETER PARKER, chairman of the British Railways Board, has become the chief spokesman for the chairman of 20 of Britain's nationalised industries.

He has been appointed chairman of the Nationalised Industries' Chairman's Group, which represents the 20 in their dealings with the Government and other organisations.

The previous chairman was Sir Denis Rooke, chairman of the British Gas Corporation, who remains the group's chief spokesman on the salaries of nationalised industry board members.

This means that both Mr. Parker and Sir Denis will be in the forefront of the battle which may develop with the Government over board salary levels when the Boyle Committee on Top Salaries presents its next report later in the spring.

The new chairman-elect of the group is Sir Frank McFadden, of British Airways.

Tighter profit rules for drug companies

By KEVIN DONE, CHEMICALS CORRESPONDENT

A MODIFIED price regulation scheme governing profits made by the pharmaceutical industry comes into operation this week.

The scheme follows a compromise deal agreed by the drug industry with the Department of Health nearly a year ago.

In return for an advantageous change in patents legislation, companies have accepted a slightly more onerous price regulation scheme, stiffened controls of the contents of advertisements and a tightened industry code of practice.

For the first time drug companies must give the Government a forecast of their expected profits in the first three months of the financial year.

Previously, other than when applying for a specific price in-

crease, companies have had to provide only historical financial data.

The purpose of the new Pharmaceutical Price Regulation Scheme is to offer both the industry and the Government an early warning scheme of companies likely to make excessive profits.

Eventually if such profits are proved the Government could order price reductions, delay increases or order a repayment of a proportion of the profits. In practice such actions have only rarely been taken.

The main concession made to the drug industry by the Government was the withdrawal of the so-called Section 41 from the Patents Act. In the past this provision had allowed any com-

pany to apply for a compulsory licence for the manufacture of a drug.

Research-based pharmaceutical companies had feared that the Government might use the clause to provide licences for a state-owned drug company, as has been suggested in past Labour Party manifestos.

In related moves the industry has agreed to tighter control of the quality of drug advertisements with regulations covering specific product details that must be included.

Under the strengthened code independent members from outside the industry have been added to the executive committee. Also sales representatives entering the industry for the first time will face compulsory examinations.

Manchester 'facing shortage of jobs'

FINANCIAL TIMES REPORTER

GREATER MANCHESTER could face a shortage of up to 150,000 jobs by 1986, unless new employment can be created. Councillor Tom Lawin, chairman of the county planning committee, said yesterday everything possible would be done to attract new industry but the main emphasis would have to be on stimulating growth and stability of existing industry, especially in areas of the county deprived of orders.

Introducing the Greater Man-

chester Council draft structure plan, he said the centres of most older towns in the county, as well as a number of overspill estates, deserved the level of priority now being given to inner city revitalisation.

The report blames contraction in traditional industries such as textiles and mining, for the decline in Greater Manchester's industrial employment over the last 15 years.

In the ten years to 1975 an estimated 151,000 jobs were lost.

Newcastle seeks new industry

Financial Times Reporter

NEWCASTLE-UPON-TYNE has launched a drive to attract 2,500 new jobs to the city in the next three years. It is to concentrate on the chemical, mechanical and electrical engineering industries.

Mr. Kenneth Galley, the city's chief executive, announced a £200,000 marketing campaign in London to back the city's employment policy programme which was set up a year ago.

English disease is endemic

By OUR ECONOMICS STAFF

THE SO-CALLED English 'disease' is unlikely to be confined to Britain from now on but is set to become typical of advanced democratic economies.

This was the main conclusion of Mr. Samuel Brittan of the Financial Times, in the eighth Henry Simons lecture delivered yesterday at the University of Chicago.

The lecture, "How English is the English Sickness?" will be published in the October issue of the university's Journal of Law and Economics.

Mr. Brittan said the "English disease" pertains not to a particular country but to a stage in political and economic development.

The disease was that of collective action by special interest groups preventing a reasonably full use being made of our economic resources. Yet there was some hope that this disease,

like many others, might eventually produce its own cure.

There was a need to distinguish between the problems of the gap separating the growth rate of the U.K. and that of other industrial market economies, and the more recent occurrence of high unemployment, high inflation and inept protectionism which affected most Western countries in the 1970s.

The British inflationary excesses were recent, unlikely to persist and, therefore, not the most fundamental aspects of the British disease.

"Many other much-criticised British policies are also followed to a comparable degree by other governments, working under similar political pressures. Moreover, these errors are too recent to explain the longer-term weaknesses," Mr. Brittan said.

Inflation had not been conquered but at least the British

authorities now had evidence that budget deficits financed by excess monetary creation led to an inflationary crisis rather than real growth.

The temptation to inflate the money supply in the name of full employment policies was an aspect of the English sickness now more likely to be experienced in the U.S. than Britain.

In discussing other long-term influences, Mr. Brittan referred to the impact of the class system on British social status has less to do with merely making money than in almost any other western society.

He also discussed union power. "We do not know if the sustainable unemployment rate is too high for democratic stability or, if it is, what the role of union-type monopoly is in making it so."

Air survey will help to discover heat loss

By David Fishlock, Science Editor

A DOZEN large U.K. industrial companies are collaborating with the Atomic Energy Authority's Harwell observatory in an aerial survey of the heat lost from factories and commercial premises.

The Department of Energy said yesterday that it was funding night flights, expected to begin this week, over areas of the south, midlands and north-west of England, which would be filmed with a heat camera.

A multi-spectral infra-red camera will be used to film "hot-spots" along a flight path about one-third of a mile wide, showing where heat is leaking from plant or buildings.

The camera, imported from the U.S., is sensitive enough to show differences in temperature of as little as one-third of a degree centigrade from a height of 1,500 feet, when flown fairly slowly.

Infra-red surveillance of this kind is carried out at night to eliminate the disturbing effects of sunlight, and is best carried out during relatively short "windows" in the spring and autumn, when climatic conditions are most suitable.

A spokesman for Harwell said yesterday that the research centre hoped to offset the cost of the pilot survey—about £45,000—by raising about £20,000 from companies examined, in exchange for assistance in analysing their heat leaks.

These companies include ICI Fibres, GEC, Pilkington, and Reed International. The laboratory plans to augment the aerial survey with infra-red measurements made on the ground, using portable heat cameras.

In charge of the studies is the image analysis group at Harwell under Dr. Bill Gardner, which will be using the data from aerial and ground surveys to build up a detailed map of the heat leaks from pipes, valves, and roofs.

Britain's lighting bill could be reduced by over £60m a year through better use of existing lights and the installation of more efficient systems, Dr. John Copley, Under-Secretary for Energy, said yesterday.

Bank permission made \$ premium fraud possible

FINANCIAL TIMES REPORTER

THE ALLEGED role played by a Bank of England official in a big dollar premium fraud plot was outlined at the Old Bailey yesterday when six men denied about the potential fraud, and the Chase Manhattan Bank became suspicious about another proposed currency transaction in April 1976 and had contacted the Bank of England.

From March 1976, which was kept on Mr. Wales, and he was seen to meet two of the people involved in the alleged plot at the Waldorf Hotel.

The other defendants, who also deny the charges, are Adrian James, 32, solicitor, of Bray, Berks, Leonard Ash, 39, panel-beater of Normanton on the Wolds, Notts, Alfred Taylor, 61, builder of Kensington, John Robinson, 57, commodity trader of Hutton, Essex, and Reginald Atkins, 50, company director of Solihull Warwickshire.

Mr. D. Tudor Price, prosecuting counsel, claimed that Mr. Wales, who is presently suspended from his duties in the Exchange Control department at the Bank of England, had provided a blanket authorisation in 1975-76 for the dollar premium entitlement of certain foreign securities put forward by the plotters which virtually gave them a licence to print money. But the securities were non-existent and in the names of fictitious people, counsel added.

Later, the name of a further fictitious holder of foreign securities, Mr. Michael Reed, was given to Mr. Wales through a solicitor's office and he was dealing with his affairs when the Treasury became suspicious and interviewed him.

Mr. Tudor Price alleged: "Mr. Wales was an essential party to the scheme because he was able to ensure that no errors were committed. He provided a safety net for the conspirators because he opened files to meet their needs. At times they spoke of him as 'our man in the Bank of England'."

The stakes were high, as the amount the conspirators planned to put through the Exchange Control system varied from £25m to £200m, and as much as £50m. seemed to become part of their aspirations.

But in the end, despite efforts in London, the U.S. and else-

where, they could not get enough funds to finance their schemes. Additionally, one of the accused men, Alfred Taylor, had tipped off Scotland Yard early in 1976 about the potential fraud, and the Chase Manhattan Bank became suspicious about another proposed currency transaction in April 1976 and had contacted the Bank of England.

From March 1976, which was kept on Mr. Wales, and he was seen to meet two of the people involved in the alleged plot at the Waldorf Hotel.

The other defendants, who also deny the charges, are Adrian James, 32, solicitor, of Bray, Berks, Leonard Ash, 39, panel-beater of Normanton on the Wolds, Notts, Alfred Taylor, 61, builder of Kensington, John Robinson, 57, commodity trader of Hutton, Essex, and Reginald Atkins, 50, company director of Solihull Warwickshire.

Mr. D. Tudor Price, prosecuting counsel, claimed that Mr. Wales, who is presently suspended from his duties in the Exchange Control department at the Bank of England, had provided a blanket authorisation in 1975-76 for the dollar premium entitlement of certain foreign securities put forward by the plotters which virtually gave them a licence to print money. But the securities were non-existent and in the names of fictitious people, counsel added.

Later, the name of a further fictitious holder of foreign securities, Mr. Michael Reed, was given to Mr. Wales through a solicitor's office and he was dealing with his affairs when the Treasury became suspicious and interviewed him.

Mr. Tudor Price alleged: "Mr. Wales was an essential party to the scheme because he was able to ensure that no errors were committed. He provided a safety net for the conspirators because he opened files to meet their needs. At times they spoke of him as 'our man in the Bank of England'."

The stakes were high, as the amount the conspirators planned to put through the Exchange Control system varied from £25m to £200m, and as much as £50m. seemed to become part of their aspirations.

But in the end, despite efforts in London, the U.S. and else-

Manager urge £2.5bn. tax cuts

By David Freud

THE BRITISH Institute of Management yesterday published full details of Budget to recommendations made to Chancellor in February.

The institute urges a 2 reduction in personal tax over the full year, from the £3.6bn. put forward by the revised Budget earlier this week.

Sir Derek Ezra, chairman of the institute, which claims to represent more than 250,000 managers, said the proposed 2 cut was the right amount to stimulate the economy without causing inflationary and b of payments problems.

The recommendations institute—published at the of the meeting with the Chancellor—were for a cut basic rate of tax from 34 per cent, a reduction of 1 marginal rate from 83 to cent, and increases in the value of higher rate three.

Sir Derek said that it could probably be at without increases in should be accounted through increases in alcohol, tobacco and petrol.

Because managers and professional groups have hit hardest, according institute, it pressed a change in the way a contribution to the of differentials.

The institute estimates reducing the basic rate of 30 per cent would cost while the other two would absorb the ru £0.5m. in roughly equal terms.

These reductions increase the take-home middle managers' earnings £7,800 by 5 per cent senior managers on £2 by 11 per cent. This is with a 4 per cent for a wage-average wages.

White Paper proposes unified structure for electricity supply

By ROY HODSON

THE PRESENT structure of the electricity supply industry for England and Wales would be replaced by a new statutory body called the Electricity Corpora-

The new corporation would be responsible to the Energy Secretary for the running of the industry. Subsidary boards called the Electricity Generating Board and the 12 area electricity boards would be established within the

new corporation. The White Paper basically consists of the draft clauses of a recently-prepared Bill for the re-organisation of the industry. The Government had to drop the Bill because of the refusal of the Parliamentary Liberal Party to support its passage through Parliament.

New powers proposed for the industry in the White Paper include:

● Power to manufacture and sell electrical plant or fittings and the by-products of electricity generation.

● The right to search for, and extract, any mineral except coal and petroleum which is used in the generation of electricity. This power is clearly directed towards the proposed corporation engaging in uranium exploration and extraction as a raw material source for the growing nuclear power programme.

The White Paper states that the Bill was drafted to meet certain Government objectives for the industry, namely:

● That the Government accepts the need for a new unified statutory framework which promotes more effective policy-making for the industry as a whole.

● There must be safeguards against over-centralisation and the industry must continue to be fully responsive to consumers' needs at local level. To emphasise that point the White Paper proposes that the Energy Secretary should continue to appoint the leaders of the industry by having the powers to appoint the chairman and members of the Electricity Corporation, and that he should also continue to appoint the members of the subsidiary generating and area boards.

● The industry should pay due regard to wider national objectives and its social responsibilities.

Other principal duties proposed for the corporation are: to organise the E to devolve maximum managerial responsibility to the Boards; to avoid undue preference in the supply of electricity to have industry's organisation, after consulting the existing consultative Councils.

The Select Committee decided to start a major study into the industry to consider the effects of pur-chasing and manufacturing policies upon suppliers to the industry; to carry out research and development; to promote the efficient and economical use of energy and to make available as fully as practicable without breaching confidentiality, in-formation about its policies.

It is proposed to keep the names of the area Boards which are well known to consumers.

The White Paper suggests that committee could be set up before the Bill is introduced to examine the management of the industry, and the electricity corporations would be responsible for determining strategic policies for the industry as a whole.

It is also proposed that the detailed structure of the

reformed industry or Electricity Corporation be settled by forms of a legislation in order to flexibility to change the industry's organisation as energy; and to make as changes. That is achieved by giving the Secretary power to make ministerial orders to press organisation of the ind any point in time.

Many of the Govern proposals now contained White Paper follow a report on the electricity industry in January that far-reaching change organisation of the ind England and Wales were Mr. Anthony Wedgwood, the Energy Secretary, yesterday when he discussed White Paper that all consultations with the industry and its contents goodwill of the industry.

The White Paper's strong current of opinion favour of change it present fragmented structure of the industry to a unified nation.

Flexibility It goes on: "The Government accepts the need for work which promotes effective policy-making industry as a whole. believes, however, that important to retain the which will allow the local structure to be provide for safeguards over-centralisation, and that the industry continue fully responsive to local needs at the local level.

The reorganised industry would also be duties to consumers general public. The E Consumers' Council for on a statutory basis and man would be a member of the Electricity Corporation.

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London Clearing Banks' balances as at March 15, 1978

THE TABLES below provide the first monthly indication of the trends of bank lending and deposits, ahead of the more comprehensive banking and money supply figures published later by the Bank of England. Tables 1, 2 and 3 are prepared by the London clearing banks. Tables 1 and 3 cover the business

of their offices and their subsidiaries (excluding Scottish and Northern Ireland banks) in England and Wales, the Channel Islands and the Isle of Man which are listed by the Bank of England as falling within the banking sector. Table 3 covers the parent banks only. In this, it is comparable with the figures

produced by the Bank of England, which show the reserve positions of all the banking sectors subject to credit control. Minor differences here arise from the exclusion from the clearing bank figures of Co-ops, a subsidiary of National Westminster but a clearing bank in its own right.

TABLE 1. AGGREGATE BALANCES

	Total outstanding	Change on month
LIABILITIES	£m.	£m.
Sterling deposits:		
U.K. banking sector	4,239	+229
U.K. public sector	25,261	+372
U.K. private sector	556	+129
Overseas residents	2,209	+107
Certificates of deposit	2,259	+20
Of which: Sight	34,625	+91
Time (inc. CD's)	14,476	+163
Foreign currency deposits:		
U.K. banking sector	3,596	+148
Other U.K. residents	834	+12
Overseas residents	10,382	+114
Certificates of deposit	1,084	+3
Total deposits	50,551	+246
Other liabilities	5,587	+510
TOTAL LIABILITIES	56,138	+756
ASSETS	£m.	£m.
Sterling		
Cash and balances with Bank of England	990	-106
Market loans:		
Discount market	2,104	-319
U.K. banks	4,980	-56
Certificates of deposit	884	-78
Local authorities	1,277	+99
Other	441	-51
Total assets	9,587	-335

* Includes items in suspense and in transit.

TABLE 2. INDIVIDUAL GROUPS OF BANKS' BALANCES

	TOTAL	Change on month	BARCLAYS	Change on month	LLOYDS	Change on month	MIDLAND	Change on month	NATIONAL WESTMINSTER	Change on month	WILLIAMS & GILLYN	Change on month
LIABILITIES	£m.	£m.	£m.	£m.	£m.	£m.	£m.	£m.	£m.	£m.	£m.	£m.
Total deposits	50,551	+246	13,920	+48	9,562	+4	10,512	+163	15,043	+206	1,614	-75
ASSETS	£m.	£m.	£m.	£m.	£m.	£m.	£m.	£m.	£m.	£m.	£m.	£m.
Cash and balances with Bank of England	990	-106	287	-33	179	-20	191	-45	224	-5	39	+2
Market loans:												
U.K. banks and discount market	10,414	-53	2,829	-48	2,590	+3	1,312	+68	2,359	-47	254	-30
Other	9,455	-61	2,582	+56	2,280	-37	1,581	+39	2,407	-90	396	-28
Bills	1,163	+38	228	-32	118	-2	351	-36	416	+111	19	-3
Special deposits with Bank of England	823	+11	253	-	117	-	183	+5	241	+5	27	-
British Government stocks	2,241	+143	510	+30	437	+5	345	+21	784	+131	145	+18
Advances	26,787	+222	7,856	+10	3,997	+28	6,230	+192	7,793	+72	911	+34

TABLE 3. CREDIT CONTROL INFORMATION (Parent banks only)

	Eligible liabilities	Reserve assets	Reserve ratio (%)
Eligible liabilities	23,622	+176	7.26%
Reserve assets	2,141	+94	9.37%
Reserve ratio (%)	13.2	+0.2	12.9

Banking figures

(as table 9 in Bank of England Quarterly Bulletin) ELIGIBLE LIABILITIES, RESERVE ASSETS, RESERVE RATIOS, AND SPECIAL DEPOSITS

1-Banks	March 15, 1978	Change on month
Eligible liabilities	£m.	£m.
U.K. banks	23,622	+174
London clearing banks	2,612	+7
Scottish clearing banks	819	-5
Northern Ireland banks	1,869	+11
Accepting houses	6,172	-29
Other		
Overseas banks	3,911	+99
American banks	240	+9
Japanese banks	2,782	+90
Other overseas banks	203	-7
Consortium banks		
Total eligible liabilities*	42,575	+352
Reserve assets	£m.	£m.
U.K. banks	3,160	+91
London clearing banks	353	+5
Scottish clearing banks	116	+1
Northern Ireland banks	300	-36
Accepting houses	863	-31
Other		
Overseas banks	620	+51
American banks	57	-
Japanese banks	516	+24
Other overseas banks	51	-3
Consortium banks		
Total reserve assets	6,016	+102
Constitution of total reserve assets	£m.	£m

LABOUR NEWS

Leyland workforce urged to oppose new incentive scheme

By Arthur Smith, Midlands Correspondent

SHOP FLOOR opposition is mounting to the proposed new incentive scheme for Leyland. Stewards have urged the 20,000 workers at Longbridge, Birmingham, to reject the deal, which they describe as "bogus".

Some 7,000 workers at the Coventry plant, Solihull, have voted to show a show of hands to oppose the scheme, which offers the prospect of an 8-2-a-week bonus. At Castle Bromwich, Birmingham, the 500 workers have been recommended by their stewards to boycott the ballot, now under way.

The company, after failing to reach agreement with the trade unions, decided to put the issue to a postal ballot of the 100,000-strong workforce.

Voting ends to-morrow and the results may be announced on Friday.

The company sees the self-financing incentive scheme as an important first step towards raising Leyland's lagging productivity levels to that of European competitors.

The unions complain that, because the bonus is based upon overall plant performance, workers will see no relationship between individual effort and earnings.

Shop stewards are also anxious to retain mutuality—the right to determine with management the speed and manner levels of the work.

There are fears that any productivity gains will result in more redundancies, in addition to the 12,500 cut in the labour force that Mr. Michael Edwards, British Leyland chairman, has said will be necessary this year.

Mr. Grenville Hawley, the Transport and General Workers' Union national secretary for the automotive industry, said: "We are not going to create a redundancy situation just to put in a nebulous incentive scheme."

At Chrysler, Coventry, there are hopes that the 4,000 workers at the Stoke engine plant will be recalled to-morrow. The 70 fork-lift truck drivers, on strike since Monday, will vote to-day on a peace formula hammered out by management and unions yesterday. The dispute centres on disciplinary action against two shop stewards.

Major talks on railmen's pay likely to be delayed

By Pauline Clark, Labour Staff

NEGOTIATIONS on a pay deal for some 200,000 railwaymen are expected to be further delayed to-day, while unions and management concentrate on plans to solve the relatively minor inter-union dispute over bonus payments to train guards.

A British Rail Board spokesman said yesterday that this would almost certainly delay further the tabling of a firm pay offer to more than 200,000 employees, although unions and management were planning to discuss pay and productivity before the implications of an investigation of the dispute under Lord McCarthy were tackled.

The train drivers' union, ASLEF, says that it will agree to an examination by the industry's negotiating machinery of what it describes as a "sectional" pay deal for train guards in the National Union of Railwaymen, as suggested by the McCarthy advisory panel.

But it has yet to agree with the NUR on when the examination should take place and the prospect of industrial action over the issue remains.

Leaders of the NUR are placing priority on achieving an annual settlement due on April 34 and have opposed the train drivers' attempts to have the bonus issue dealt with first.

The forthcoming national pay offer is said to have undergone "some manoeuvring" of the figures following the eruption of the row over the bonuses.

The Board has been working on an offer within the Government's 10 per cent. guidelines which includes a productivity arrangement to yield an extra £3.50 a week.

This would be dependent, however, on unions co-operating with further manning reductions and changes in work practices. It seems unlikely that the Board's proposed formula for working out productivity will be left unchallenged by the unions.

The formula, known as the Business Performance Index, would be based on measuring the number of hours worked by railwaymen against total passenger and freight miles achieved by the railways.

The unofficial three-day-old strike which has brought British Rail engineering workshops at Doncaster to a standstill spread to York yesterday. Some 2,400 shop floor workers walked out in support of their colleagues after a mass meeting, following picketing by the Doncaster strikers, protesting about the management sending home a colleague.

Banks' union to stay in insurance field

By Nick Garnett, Labour Staff

THE National Union of Bank Employees yesterday committed itself to further incursions into the insurance industry, in defiance of the wishes of the TUC leadership.

The union's annual general conference overwhelmingly defeated a motion calling for the withdrawal of its representation in insurance companies and building societies to concentrate on banking.

The union's executive sees the vote as a mandate to step up recruitment in insurance, an area in which Mr. Clive Jenkins' Association of Scientific, Technical and Managerial Staffs considers its own.

Mr. Len Murray, TUC general secretary, told the union's delegates three days ago that it would be better for the trade union movement if the association stayed out of banking and the bank employees' union out of insurance.

Mr. Leif Mills, general secretary of the National Union of Bank Employees, told delegates yesterday that the union was not seeking confrontation, but would not be "pushed around" by anyone outside the union.

He also gave notice that the union would be mounting a campaign of recruitment in insurance and elsewhere.

Lorry owners hit at British Rail

By Our Transport Correspondent

THE ROAD Haulage Association yesterday joined the dispute over the Government's decision to restore British Rail's right to engage in commercial road haulage operations.

Mr. George Newman, the association's director-general, said in a letter to Mr. William Rodgers, the Transport Secretary, that the result would be still more overcapacity in road haulage.

Furthermore, British Rail's use of "marginal costing" would depress haulage rates and, because the services would run at a loss, inevitably become a burden on the taxpayer.

The Government's decision to restore powers lost by British Rail in the 1968 Transport Act has some amendment to the Transport Bill now before Parliament.

This amendment is designed, the Government says, simply to allow the Freightliners road and rail container carrying company which the Bill restores to British Rail ownership, to continue its present operations unhindered by the law.

The association's worry is that British Rail will take advantage of the phrasing of the amendment to phase a much wider role in road transport.

The amendment gives British Rail the freedom, where "it appears expedient" to use its vehicles "for the carriage by road of goods of any description" and the ability to carry out a contract for rail carriage using road vehicles if necessary.

Although the amendment clearly gives British Rail wide powers, the nature of the Freightliners business does involve use of road trucks, vehicles in, for example, places where rail facilities are not suitable. Without the amendment, it would not be able to meet all of its existing commitments.

Road and rail unions have also expressed anxiety about the amendment.

APPOINTMENTS

New chairman for Mitchell Cotts

Mr. P. P. Dunkley, deputy chairman and managing director of Mitchell Cotts Group, has been appointed chairman and managing director in place of Mr. J. K. Dick, who has retired. Mr. Dick will continue his other business activities from Hume Holdings, of which he is chairman.

Mr. William Kenyon, a director of BARKER and DOBSON, has been made chief executive of the company.

Mr. R. H. Soames has been appointed chairman and Mr. J. W. Stokes, managing director, of WATNEY'S SOUTHERN in place of Mr. D. P. Johnson, who has left the group. Mr. Soames remains as chairman and managing director of Watneys London.

Mr. John P. Harrison has been appointed director of the KNITTING INDUSTRIES' FEDERATION. He succeeds Mr. Alan Kershaw, who has retired.

Mr. Eric Bond has been appointed executive director (production) of EDGAR VAUGHAN AND CO. and Mr. George Clayton has become technical representative.

Mr. W. B. Lander has retired as a director of CARRINGTON VIVELLA GROUP.

Mr. Peter Hill, sales division manager, has joined the Board of TUNNEL REFINERIES. Dr. Trevor Palmer has been made technical director on the Board.

Mr. J. B. Mays has been appointed to the Board of GLAN-VILL. ENTHOVEN (MARINE), part of the Charterhouse Group.

Brigadier S. v. R. Theron has become chairman of Hawker Siddeley Electric Africa (Pty.), a subsidiary of Hawker Siddeley Africa (Pty.), Hawker Siddeley Africa (Switchgear) (Pty.) and Hawker Siddeley (Transformers) (Pty.), succeeding Mr. R. R. Kenderdine, who has retired.

Mr. A. I. S. McKiddie has been appointed assistant general manager with the WOOLWICH EQUITY SOCIETY and will specialise in personnel matters.

Mr. R. S. Hackett has been appointed assistant director (engineering planning) at BRITISH GAS headquarters. He has been engineering planning manager since 1970.

Mr. E. C. Edgill, at present an associated member of BUCKMASTER and MOORE, stock brokers, will join the partnership on April 14.

Mr. Frank Brown has become general manager of FIRTH BROWN. Mr. Brown was director of development at Firth-Vickers Special Steels and was previously with Shepco Lane Rolling Mills.

Mr. R. D. Goss has been appointed chairman of DREXEL BURNHAM LAMBERT, the London-based affiliate of the man and managing director of Mitchell Cotts Group, has been appointed chairman and managing director in place of Mr. J. K. Dick, who has retired. Mr. Dick will continue his other business activities from Hume Holdings, of which he is chairman.

Mr. Bryan J. White has been appointed company secretary of SLEEPERZEE and subsidiaries.

Mr. Neil Macgregor has been appointed director of GUY BUTLER AND CO. (JERSEY), a member of the Butler TII and Guy Butler (International) broking group. Mr. Gerry Wilton has been made a manager of Butler TII.

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Singer chiefs to hold Rolls-Royce talks on U.K. factory dispute closes plant

SENIOR executives of the Singer Company, in New York, are to hold talks later this year with the Prime Minister and other Ministers about the future of the firm's Clydebank sewing machine factory in Scotland which employs 5,000 workers.

Mr. Joe Flynn, president and chief executive of the U.S. company, is to visit the U.K. in June, after Singer has completed a world-wide sourcing survey of their future manufacturing requirements.

After a meeting yesterday in London between Clydebank shop stewards, union officials and Mr. Ed Keesh, Singer's president of European operations, a joint statement said the discussions would involve possible options for the plant as formulated by the survey.

Mr. Keesh added that he was confident the Clydebank factory would continue to have a place in Singer's world-wide thinking on the future.

Mr. John McFadyen, Clydebank stewards convenor, said that there was no immediate threat to jobs at the plant.

"We are really looking to the future. We want Singers to invest in Clydebank and we want them, if necessary, to go to the Government for the cash."

Rumours about the future of the plant, which manufactures both domestic and industrial machines mainly for export, have abounded since last year in the Clydebank area, where Singers are the main employer.

But the company insisted it could not give any detailed information until the sourcing survey was complete.

Already, production of some types of machine is being phased out at Clydebank, with a loss of 150 jobs by the end of next month.

MINERS in Nottinghamshire have been urged to strike over plans to close down Tattersall Colliery. The call to the 3,000 miners was made by the National Union of Mineworkers' area executive after Mr. Anthony Wedgwood Benn, the Energy Secretary, said in a letter that he was not prepared to intervene over the Coal Board's proposal to close the pit in 1981.

SIXTY tugboatmen yesterday accepted a 17 per cent. pay rise and cleared the way for the opening of Britain's newest port. The men have boycotted the new £38m. Royal Portbury dock at Bristol for two months in pursuit of a 27 per cent. pay increase.

Power by Parachute

This Bosch generator fell, quite literally, from the heavens. It was delivered by parachute, together with tents and other material, as part of a training exercise for the German Emergency Relief Service. This was only an exercise, but when a real emergency arises, Bosch generators are always there ready to supply on-the-spot power.

"We were able to work round the clock and secure the dam only because we had sufficient light for the job. Our generator plant was operating non-stop", rescue workers from the Emergency Relief Service recalled. During the severe flooding along the north German coast in 1962 they had been called in to mount a continuous watch over the threatened dam. Even in those days Bosch generators were part of the rescue teams' standard equipment. Today hundreds of thousands of Bosch generators are in daily use under much less dramatic circumstances: as portable power supplies for subcontractors on construction sites, for track-layers working on railways, for a host of industrial concerns requiring supplementary power sources and last but not least, for the many campers, caravanners or do-it-yourself enthusiasts who want a reliable portable power supply.

Bosch generators are really mobile power stations. The smallest gives out a useful 650 watts, while the largest produces some 65,000 watts, enough to meet the requirements of an entire block of flats during a power cut.

Bosch generators are used throughout the world in 100 different countries.

They will give reliable service even under tropical or sub-arctic conditions. They will even stand up to humidity levels of 95%. On request, Bosch can supply fully mobile trolley-mounted

generators with sound-deadening cowl covers. Safety features to guard against the risk of faulty operation are built in. So whether your Bosch generator falls from the skies by parachute or arrives by rather more conventional means, it is a heaven-sent gift for all who require instant portable power.

There's more to Bosch than you think:

Your car engine almost certainly has some Bosch parts; and it may well be tested by Bosch equipment at its next service.

Many of the goods people buy in their supermarkets have been packed with machines produced by Bosch. These provisions may be stored in a Bosch refrigerator or freezer in a Bosch kitchen.

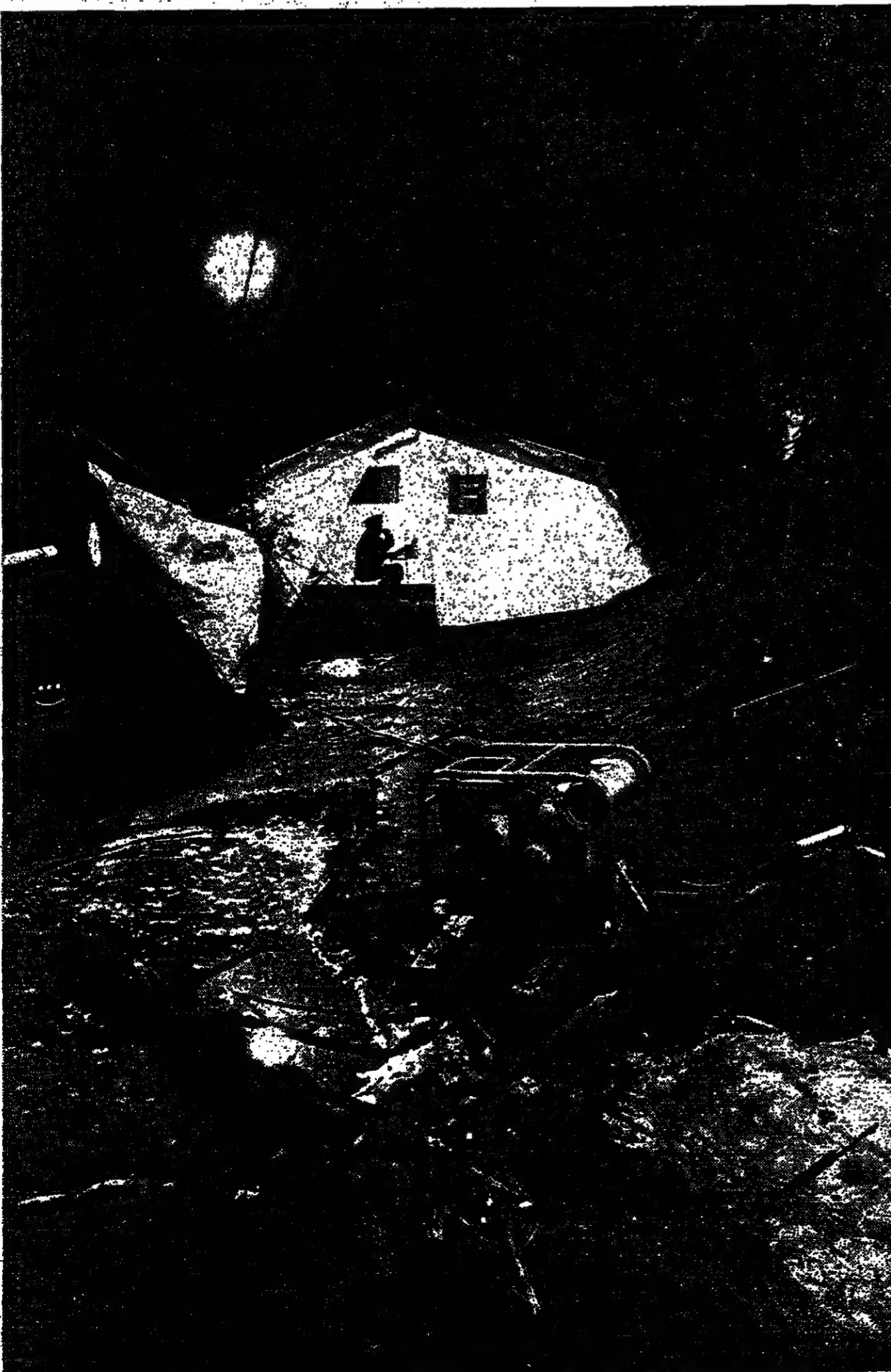
Television viewers will have seen the Olympic Games through Bosch eyes, as many of the sporting events were televised by Bosch Fernseh cameras. News and entertainment in cars can be received with Blaupunkt auto sound systems.

Bosch power tools are at work in industry, on construction sites and in homes world-wide. Bathrooms and kitchens are equipped with Bosch fittings and built-in units. Deep-cooled blood stored in many European hospital blood-banks is restored to body temperature with Bosch medical equipment.

Bosch employs 5,700 people in research and development alone. Bosch have at present 10,000 patents throughout the world, with 15,000 pending.

Bosch UK: Robert Bosch Limited, Watford, Hertfordshire

BOSCH



PARLIAMENT AND POLITICS

Neutron bomb policy unclear
Tory peers ponder what's in a name

BY IVOR OWEN, PARLIAMENTARY STAFF

THE PRIME MINISTER yesterday declined to confirm or deny a report that Britain had agreed to deploy the American neutron bomb in the UK.

In a brief reply, Mr. Callaghan said that he could not accept responsibility for reports on ITN, the BBC, or in newspapers.

"As regards the neutron bomb, it is a question of weighing the very substantial political disadvantages against whatever military advantage may be presumed to exist," he added. But he told Labour backbenchers that he did not press him any further on the matter at present.

TORY PEERS flexed their muscles last night at the start of the Committee stage of the Scotland Bill, with Earl Ferrers, Deputy Leader of the Opposition in the Lords, warning the heavily outnumbered Government ranks to avoid unnecessary confrontation.

He issued this cautionary injunction before peers had even begun to discuss the first major amendment which—with all-party and crossbench support—seeks to base elections to the Scottish Assembly on the additional member system of proportional representation.

Lord Ferrers, backed by cheers from the Tory benches, claimed that the attitude taken by the Government in resisting an early amendment, which urged that the title of the new legislative body should be changed from the Scottish Assembly to the Scottish Convention, was a bad augury.

Led by the Earl of Selkirk, a

former Tory Minister Opposition peers argued that without such a change the new body would be confused with the long-established and authoritative General Assembly of the Church of Scotland.

Lord MacLuskey, Solicitor-General for Scotland, maintained that there was no possibility of confusion. Supporters of the amendment, he insisted, had relied on a shadow argument with no real substance.

Shadow

To abandon suddenly the title of assembly, which was central to the whole concept of the Government's devolution proposals, would lead people to think that the House of Lords had gone mad.

Lord MacLuskey suggested that in spite of the shadowy nature of the amendment, its incorporation in the Bill might lead some people in Scotland to think that

they had been robbed of some of the substance of the measure as well.

Lord Ferrers protested at the Minister's hard line attitude and the Government's uncompromising stand against an amendment which he regarded as being non-party and non-political in character.

He said it boded ill for the remainder of the committee stage, particularly the 60 clauses which had not been discussed at all during the early proceedings in the Commons.

Lord MacLuskey stressed that the Government had already given careful consideration to all the arguments which peers had used against the title Scottish Assembly, and had also discussed the matter with representatives of the General Assembly of the Church of Scotland.

But, in more conciliatory mood, he promised that they would be considered again, and this undertaking led Lord Selkirk to withdraw the amendment.

Six to contest Glasgow seat

By Ray Perman, Scottish Correspondent

NOMINATIONS closed yesterday for the Glasgow seat in the Scottish Parliament. Six candidates are standing.

The poll was caused by the death of Mr. William Small (Lab.), who had a majority of 7,626 over the Scottish National Party. The new Labour candidate, Mr. Donald Dewar, 40, a member of the Scottish executive of the Labour Party, was MP for Aberdeen South from 1965 to 1970.

The SNP candidate is Mr. Keith Bovey, 50, and Mr. Iain Lawson, 25, is fighting the seat for the Conservatives. The Communist candidate is Mr. Sammy Ray, a hotelier and shop steward at the Scotstoun Marine shipyard.

Two parties are fighting the election as their first Parliamentary contest. Mrs. Shiona Farrell, a lawyer, working as an immigration counsellor is standing for the breakaway Scottish Labour Party and Mr. Peter Porteous is the Socialist Workers' Party candidate.

Thatcher reproof



MRS. THATCHER was yesterday accused by a Labour backbencher of "monopolising" Prime Minister's Question Time. Mr. Eric Heffer, MP for Walton, called on the Speaker to hold talks with the party leaders concerned after the Tory leader had gone to the despatch box three times in the 15 minutes set aside for questions.

Kidney campaign

A CAMPAIGN is to be launched today by Mr. David Ennals, Health Secretary, to make people more aware of the need for kidney transplants. The Prime Minister hoped that the campaign would ensure that transplants of kidneys after death could be made more easy.

Lorry complaint

AN MP yesterday demanded an immediate Government inquiry into ways in which Japanese lorries are entering Britain by a method which, he alleges, evades the voluntary agreement on imports. Mrs. Gwyneth Dunwoody (Lab., Crews) claimed that firms in the Republic of Ireland were buying "knock-down Japanese lorries," which were complete but required assembly.

Roads pledge

A MORE rigorous approach to priorities within the planned investment of £200m. on trunk roads and motorways was promised yesterday by Mr. William Rodgers, Transport Secretary, who said he would give emphasis to vital industrial routes and schemes with high environmental benefits.

Tanker procedures to be reviewed

BY OUR PARLIAMENTARY STAFF

THE GOVERNMENT is to review the procedure under which oil tankers transfer cargoes off the English coast, following the Amoco Cadiz disaster.

This was announced by Mr. Stanley Clinton Davis, Trade Under Secretary, in a Commons answer last night.

He told Mr. Peter Mills (C., West Devon) that the procedure had been under careful consideration by Government departments concerned with the local authorities. But he was prepared to look at it again.

Mr. Mills had asked the Minister to review the whole procedure under which oil was transferred from one tanker to another off the coast of the South-west of England.

Mr. Davis assured him that the cause of rudder failure in the case of the Amoco Cadiz would be studied fully to see if further international measures were necessary.

Mr. Mills had asked whether the Government was satisfied that many supertankers should be fitted with only one propulsion screw and were, therefore, helpless if a major breakdown occurred.

Mr. Davis replied: "Because nearly all large tankers are fitted with single rudders, single screws provide greater manoeuvrability than twin screws at slow speeds."

While the lessons to be learnt from the Amoco Cadiz disaster will be studied fully, it would not be practicable to convert existing tankers from single to twin screws, nor would this guarantee that two tankers would ever be left without proper power for propulsion."

Candidates start campaign in Lambeth Central

BY RUPERT CORNWELL, LOBBY STAFF

CANDIDATES of the three major parties fighting the April 20 by-election began their formal campaigning yesterday in Lambeth Central, the South London seat where race and immigration are certain to be prominent issues.

Defending Labour the seat made vacant by the death of Mr. Marcus Lipton, the popular veteran MP who had represented the constituency for 33 years, is Mr. John Tilley, a Fleet Street journalist, who has been party leader on Wandsworth Council.

The Tory candidate is Mr. Jeremy Hanley, a 32-year-old lecturer in taxation and law. Although the Conservatives should improve their showing of October 1974, when they secured 26 per cent of the poll, the swing is unlikely to be enough to reverse a Labour majority of 8,677.

Mr. Hanley backs the idea of a "register" of immigrants, and a register of immigrants, which is expected to be a key plank of the Conservatives' race strategy to be unveiled later this week. He also declared himself yesterday a "hawk" on law and order.

Particular attention will focus on the Liberals' campaign, and Mr. David Blunt, a lawyer and local resident, will be trying to hang on to the 12.5 per cent. The Liberals won in 1974, and to beat the National Front firmly into fourth place.

To maintain its share of the vote in the present depressed April 24.

Poll reveals doubts about MPs' role

BY PHILIP RAWSTORNE

FEWER THAN half of the people in the UK know the names of their MP according to a poll carried out by Opinion Research Centre.

The survey, conducted for the BBC's Nationwide programme, to be broadcast to-night, reveals a similarly widespread ignorance about Parliament itself.

One elector in ten thought that a "guillotine" was a penalty last used in 1884 for MPs persistently absent from the Commons.

Though 52 per cent knew what Prime Minister's Question Time was—it was broadcast on radio for the first time yesterday—one in ten again thought it was the Queen's weekly quizzing of Mr. Callaghan's actions.

Less than a quarter knew that the second reading of a Parliamentary Bill was a debate on its general principles.

Forty-seven per cent thought it was the in-house examination of a Bill, and 11 per cent believed it was a repeat of a debate for any MPs who had missed it originally.

The best result in the poll was the correct identification of a backbencher by 63 per cent of those interviewed.

After eliminating them, the poll gave the Conservatives a lead over Labour of 11 per cent.

Election warning

BY OUR LOBBY STAFF

IN SPITE OF the deadlock in Budget discussions between the Government and the Liberals, Mr. David Steel, the Party leader, yesterday said that the absence of agreed Finance Bill proposals would not necessarily mean the end of the party.

Mr. Steel, who, with Mr. John Pardoe, the Liberal economic spokesman, will be presenting the party's package to the Press today, was speaking after renewed sabre rattling that serious disagreement could precipitate a General Election this summer.

A Cabinet meeting yesterday more or less completed work on public expenditure plans for the new financial year. But the tax measures envisaged by Mr. Denis Healey will not be revealed to Ministers until the eve of his April 11 Budget statement.

The Government says that major defeats at the hands of a Liberal-Tory alliance in Committee proceedings to bring in far bigger direct tax cuts than the £2bn. to £5bn. believed to be planned by the Chancellor could not be tolerated.

Liberal News warned in an editorial yesterday that failure by the Chancellor to come up with a package closer to Liberal demands could mean a June election.

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Jim and Maggie script problem

BY PHILIP RAWSTORNE

THE PRIME MINISTER's feet again... BBC's painted excitedly, "His troops to take the steam out of the smouldering comedy."

Prime Minister's Time, on the air for the first time since Commons varied between soundly heavy-weight boxing of ship or a domestic comedy.

But if the casual listener have had doubts, the case show certainly knew who were doing.

Seventeen minutes on was enough to transform Minister's Question Time another party political in political advertising, in episodes, a dozen part with every fact.

Without a script, it was difficult to follow that Black's opening demand for a new demand.

Mr. Tony Bognes, a 26-year-old journalist, will run for the Socialist Workers' Party, while Mr. John Chase is the Socialist Unity candidate.

For the National Front, Mrs. Helena Steven will be fighting the seat. So far, the Front has been conducting a very low-key campaign. Marches in Lambeth are illegal, under the two-month ban imposed by the police on political demonstrations in the London area, which expires on April 24.

On BBC, the spirit of the Front was challenged by Mr. Rube to deplore the NUR's a railwaymen who National Front.

Mr. Callaghan patted silence but showed stage fright as Mr. Tom a Labour left-winger, a question of the neutra Calm? The Prime

reflected on his feelings rather like being a sweet top but piously like a "neat". He said that rather not be pressed neutron bomb.

And misreading her, Mrs. Margaret Thatcher him instead to expel Britain's unemployment rate, more than his income petition after Labour Government.

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CALL FOR TENDER



EMIRATES & SUDAN INVESTMENT CO. LTD.

TENDER FOR THE CONSTRUCTION OF 200 WAREHOUSES (RED SEA REGION)

PHASE ONE: 34 WAREHOUSES AT PORT SUDAN

- The Chairman of the Board of Directors, Emirates & Sudan Investment Co. Ltd., invites Tenders from competent contractors for the construction of 34 "Thirty four" Warehouses complete at Port Sudan (D.R. of Sudan) as phase one from the total number above.
- The Tender Documents "in English only" can be obtained from the office of the Managing Director of the Emirates & Sudan Investment Co. Ltd., 16 Babiker Bedri St., P.O. Box 7036, Khartoum, Telex 524 EMSU-KM, Telegraphic Address: EMSU Khartoum, during office hours against payment of L.S.100 (one hundred Sudanese pounds = £145 US\$290) non-refundable.
- Tenders will be accepted for 4 warehouses as a unit and Tenderers should deposit a sum of L.S.4000 (Four Thousand Sudanese pounds) or its equivalent in other convertible currencies either by certified cheque or a letter of guarantee from a reputable bank valid for at least three months after the closing date as a preliminary deposit in the name of the Managing Director, Emirates & Sudan Investment Co. Ltd., for each unit. Tenderers for more than one unit should multiply their deposit accordingly. Separate offers per unit for lighting and fire systems may be added as option.
- The successful Tenderer/Tenderers shall be asked to sign formal contract within two weeks after being notified of the acceptance in writing and to complete the deposit to 10% (ten per cent) of the total value of the contract either by a certified cheque or a letter of guarantee from a reputable bank valid for one year after handing over all works. Other forms of guarantee may be required for longer period. Any other plans for payment that may lead to the reduction of the cost could be proposed by the tenderers. If the contractor fails to sign the contract within the specified time, he shall lose his right to recover the preliminary deposit.
- The preliminary deposit shall be refunded to the unsuccessful tenderers two weeks after the firm award of the contract.
- Tenderers shall state clearly the following:
 - The names, qualifications, and experience of engineers and technicians who will be responsible for the execution of the works.
 - Examples of similar projects they have executed.
 - A detailed programme specifying the progress of the works and the time required for the completion of all works specified in the tender and shown in the drawings, as from the date of the signature of the contract.
 - A list of equipment and machinery in their possession necessary for execution of the works.
- The supply of all materials, equipment and machinery whether local or imported necessary for the execution of all works is solely the responsibility of the Contractor.
- Tenders shall be valid for at least three months after the closing date mentioned in para (12) below. The offer may be based on the detailed alternative or for an accepted alternative to be presented in detail to the Managing Director.
- All information relevant to the tender shall be submitted in English Language.
- For imported items, The Emirates & Sudan Investment Co. Ltd. will directly pay all insurance, clearance, customs and other Port charges.
- Foreign Currency will be paid directly from The Emirates & Sudan Investment Co. Ltd. reserves with The National Bank Abu Dhabi.
- Tenderers should bear the prescribed stamp duty and should be addressed in sealed envelopes bearing the words (TENDER FOR THE CONSTRUCTION OF WAREHOUSES AT PORT SUDAN), to The Managing Director, Emirates & Sudan Investment Co. Ltd. and should be delivered to the Tenders Box at the Company's Head Office, 16 Babiker Bedri St., 3rd Floor, Khartoum, Sudan, not later than 12.00 Noon Sudan Time Tuesday the 20th of June 1978.
- Any tender which does not comply with any of the above-mentioned requirements will be rejected.
- The Chairman of the Board of Directors, Emirates & Sudan Investment Co. Ltd., is not bound to accept the lowest or any other tender.

A FINANCIAL TIMES SURV



APRIL 14 1978

The Financial Times is proposing to publish a Survey on Gibraltar on Friday April 1978.

For further information concerning the survey and advertising rates please contact

Suzanne Ralph
Financial Times
Bracken House
10 Cannon Street
London EC4P 4BY
Tel: 01-248 8000 Ext. 201

FINANCIAL TIMES
EUROPE'S BUSINESS NEWSPAPER

The content and publication dates of Surveys in Financial Times are subject to change at the discretion of the Editor.

Technical Page

EDITED BY ARTHUR BENNETT AND TED SCHOETERS

AUTOMATION

Brick-sized unit to control big engine

THE PRIME DIGITAL CONTROL of three gas turbines has been successfully demonstrated by Hawker Siddeley Dynamics Engineering using what is the same electronic array and changing only the instruction set.

Engines involved start with a small 1,400 hp Gnome turbo-propeller power plant for helicopters, the next step up being a vectored thrust turbojet, believed to be of the type used in the Harrier—this company is not permitted to disclose up to the large Olympus TM3B marine propulsion engine.

This will provide a digital control for the engine. Hawker development engineers have put the whole control system in an aviation package which is about the size of a common building brick. It is on-engine installation is required. The alternative is off-engine mounting in a standard 19-inch industrial rack.

SHIPPING

Lofting for smaller shipyards

NEW SHIPBUILDING methods have undergone more radical changes in recent years than those involving the cutting of ships' plates—thanks, almost entirely, to the advent of computers. Most major shipbuilders are able to rely on computer-controlled equipment either for free plate cutting or for producing a template.

Capital costs are, however, substantial and small and medium sized yards have been unable to take full advantage of some of the new developments in shipbuilding technology. In computer-aided numerical lofting techniques, however, the British Ship Research Association is now able to provide a service and so ship such yards to close the technology gap.

SEVEN YEARS of research and development by VP Pintas AG behind a system of in-water survey which uses the latest technologies in ultrasonic thickness measurement and close-up true-tone colour TV recording for the continuous survey of the sides and bottom of a vessel without dry docking.

The system is virtually self-contained and cuts to a minimum the need for divers. The submerged sides and bottom of the hull are surveyed by remote control to classification standards by TV cameras while at the same time an ultrasonic probe continuously measures and records the plate thickness as the vehicle progresses along the hull. The information obtained is relayed to the surface where observers on deck or on an accompanying work vessel can simultaneously view on monitors both long-range and close-up displays.

Approved at present by Bureau Veritas, this new system of in-water survey will be on show at the Bureau Veritas stand at the forthcoming "Shipcare '78" exhibition in Hamburg, April 18-21.

VP Pintas, Dolphin Works, Crowhurst Road, Hellingbury, Brighton 6, 0273 561376.

INSPECTION

without docking

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PACKAGING

Easier to open the pack

THOUGHT to be Britain's first "E" auto-sealed carton which can be opened by means of a tear strip, a design produced by Corrugated Products, King Edward Park, Lockerbie, has been developed for large detergent cartons from £10 size upwards.

But the tear strip carton is thought to have applications in other areas including confectionery and the whisky industry.

The no-fall tear strip will be available in two forms. A thin poly strip located on the inner wall of the carton cuts through the carton when pulled by a

SAFETY

May be used in fire-risk areas

FLAMEPROOF heat detectors manufactured by Gravier have been given approval for use in hazardous areas by the Health and Safety Executive.

Designed for operation in contaminated atmospheres including those with hydrocarbon vapours, the four detectors are particularly suitable for use in the petrochemical industry.

The approved units are available with either normally open or normally closed contacts and can be lug mounted or screwed into a 1 BSP bush.

The detectors are adjustable to operate over a temperature range of 0-300 degrees C. They are normally supplied factory set to customers' requirements, but can be adjusted in-situ, says the company, which has its headquarters at 448 Basingstoke Road, Reading, Berks. (0734 85301).

MATERIALS

Additive makes floor wear-proof

RESIN flooring systems based on an epoxy formulation have been extended with a new admixture which can provide a surface of extreme hardness.

The product, calcined bauxite, is broadcast on the surface of the epoxy resin which is then over-sealed before it cures to form a monolithic layer.

Product characteristics include nil moisture absorption; excellent resistance to crushing, abrasion, impact and chemical attack; and unusually good and lasting acid resistance.

Calcined bauxite has a value of 9 on the Mohs Scale, a figure only exceeded by diamond which is rated at 10.

Th. Goldschmidt Initial House, Field End Road, Eastcote, Middlesbrough, 01-858 1531.

COMMUNICATION

Radio data terminal

LOOKING a little like a portable transistor radio, a data terminal put on the market by AEG-Telefunken allows two-way transmission to a central data processor.

The radio section can work in the 80, 160 or 480 MHz bands with 20 or 25 KHz channel spacing, so that up to 32 "portables" can be in communication with the central point using selective calling.

Each portable has a numeric keyboard which is used to key data into a built-in memory, and the portables are then polled in sequence by the central station, each sending 90 bits when addressed, with transmission at either 1200 or 2400 bits/sec. With 32 stations in the system this gives a call-off cycle time of 10 and 6.5 seconds respectively.

Each terminal also has a small, single line display on which 14 characters can be displayed—either what is being sent, or what has been received from the central station—for example, an instruction. The system allows for the number of terminals in use, but removes from the call-off cycle those from which there has been no data sent for some time.

The fixed station radiates six watts of power while the portables emit one watt, making the system suitable for docks, airports, freight terminals—wherever line communication is not available or is unsuitable.

If necessary the terminals can be used as radio telephones.

More from AEG-Telefunken (UK), 202 Kensington Church Street, London W8 4DP (01 239 9244).

CRYOGENICS

Metal test for liquid gas runs

LIQUID nitrogen, supplied by the BOC Gases Division, has been used to test operation of low temperature loading arms to be used for the loading of natural gas liquids (NGL) into tankers at the Phillips Norway Group's Ekofisk North Sea oil terminal at Teesside.

BOC had been invited to put forward proposals for simulating operating conditions for the loading arms, pending the availability of various liquefied petroleum gases which are scheduled to be produced at the NGL processing plant at Seal Sands. A test method was developed by BOC in collaboration with Parsons, Brown and Harris, consulting engineers to Phillips Petroleum Company, operator of the Teesside terminal.

The loading arm selected for test was one designed for the transfer of refrigerated liquid ethane (operating temperature minus 97 degrees C).

Liquid nitrogen at minus 196 degrees C was chosen for the tests as being the most readily available substance able to sustain a low enough temperature throughout the whole of the loading arm system to match that of liquid ethane at all crucial points.

Apart from the speed with which liquid nitrogen could be expected to cool the loading arm system to an extreme low temperature and its ease of distribution, a third factor is that, being inert, nitrogen is completely safe to use under experimental conditions.

The arm, constructed from 31 per cent nickel steel, has an operating temperature limit of minus 100 degrees C.

In order to ensure that the loading arm temperature during the test was contained within the permissible test limits, a closed circuit system was arranged by manifolded two adjacent loading arms at the jetty head and at the tanker couplers. BOC engineers carried out the low temperature tests using a special forced draught vaporiser.

Liquid nitrogen, injected from a BOC road tanker into the vaporiser unit, was turned into cold gas. The temperature of which progressively rose as it passed through the closed circuit and returned to the vaporiser unit.

Thermocouples measured the temperature at specific points in the loading arm system and the rate of nitrogen injection was manually controlled to ensure that the loading arm temperature was maintained within experimental and safe operational limits. When the required temperature had been reached, the circuit was pressurised using gaseous nitrogen from cylinders. The loading arm was moved through part of the operating envelope and all joints were checked for leaks.

Kier is the main contractor to Phillips Petroleum Company for building the jetties. The loading arms were fabricated by the National Supply Company, Stockport.

BOC on Rotherham 2161.

COMPUTERS

More power for business users

PHILIPS Data Systems is to launch two new computer systems in June—the first major announcements from the company since 1976.

The two new machines are the P330, to be the most powerful member of the P300 electronic accounting and visible record computer range, and the P430, a new model in the larger P400 small business systems range.

In Amsterdam this week, Peter de Vos, managing director of the Dutch electronics and electronics giant's computer division, was aggressively confident of its recent achievements: "Let there be no doubt that Philips is continuing in electronic data processing, in spite of the rumours circulating after the collapse of Unidata and since, in certain quarters."

Unidata was a short-lived joint venture undertaken in 1973 by Philips with Germany's Siemens and France's CII in a bid to produce a European answer to the U.S. dominance of the large computer market. Unidata failed, de Vos said, because "We mis-evaluated the political issues."

The current rumours he referred to are understood to be that Philips has been chosen by a consortium of office computer makers.

After Unidata, Philips chose to concentrate on the market for office computers—a term which it claims to have coined—with impressive success. Now, Philips has over 75,200 installations worldwide, with an average of 15 per cent of the market in each of its countries of operation, where "we are always in the top three," says de Vos.

Of the new system, the P330 is a big brother to the P310 and the P320, and can handle input and output from the flexible magnetic discs of the P310, the magnetic ledger cards of the P320—or both. This combination is claimed by Philips to be unique. Prices are expected to start at £12,000.

ENERGY

Reduction of fouling saves power

SIGNIFICANT energy savings in refinery and petrochemical operations are reported by Essochem Europe affiliates for an energy conservation system they are now actively promoting. The system involves plant simulation and antifoulants marketed under the Corxit brand.

The P400 range has always been promoted as a bridge between office computers and expensive mainframes: Horsnell described the appeal of the new computer as: "It allows users to grow from a single workstation magnetic ledger card system to a seven terminal network. This is the only system available which allows this."

P430 — or enhanced P410 — prices will start at about £19,000.

COMPONENTS

Miniature unselector

IN SPITE of the inroads made into the mechanical switching market in recent years by solid state techniques, there remains, according to Pye Electro-Devices, a strong demand for small, electromechanical multi-switching devices that are relatively cheap and can offer a high insulation resistance between input and output.

The company has therefore introduced a ratchet-driven three level unselector contained in a can 12 inches in diameter and three inches tall. It will perform at least 34m steps without adjustment or maintenance and in view of this has been given complete protection by enclosing it in a metal casing spun into place.

The device is mounted using a jack which is retained in position with a nut, giving easy electrical and mechanical connection.

With three levels each of 13 outlets, the switch can be used for decade counting and, because the moving parts are of low mass the unselector will self-drive at between 85 and 130 steps per second.

More from the company at Exning Road, Newmarket, Suffolk CB8 0AX (0838 5161).

High power transistor advance

DEVELOPMENT OF what is described as the most efficient power transistor is claimed by General Electric Corporation's Research and Development Centre at Schenectady.

One of the first applications of the transistor will be in a pair of experimental electric vehicles now being developed under a contract from the U.S. Department of Energy.

GE says the new transistor is capable of switching 400 volts and 350 amperes on or off in less than one-millionth of a second. It requires an external drive of one-tenth ampere to operate the switch. The device is a silicon chip measuring 1 by 1 inch, mounted in a copper heat sink.

TRACER PHONE

Integrated telephone and paging

CASS

Cass Electronics Limited

Phone Exham 6266 for information

Radio data terminal Metal test for liquid gas runs

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Handling of liquid hydrocarbon gases at very low temperatures—typically minus 162° C for natural gas—places major stresses on the pumping equipment employed. Siemens has developed the submersible motor-driven pump shown here and indicates that it is the first such unit produced in Europe. Collaborating with Rheinmetall Wiesbaden, Siemens designed the unit for a capacity of 35,000 cubic feet per hour, operating inside the liquid gas tanks on board LNG carriers. It also tested it to withstand rough weather and other forms of mechanical strain, apart from conferring on it ability to operate without trouble at extremely low temperatures.

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PHILIPS Data Systems is to launch two new computer systems in June—the first major announcements from the company since 1976.

The two new machines are the P330, to be the most powerful member of the P300 electronic accounting and visible record computer range, and the P430, a new model in the larger P400 small business systems range.

In Amsterdam this week, Peter de Vos, managing director of the Dutch electronics and electronics giant's computer division, was aggressively confident of its recent achievements: "Let there be no doubt that Philips is continuing in electronic data processing, in spite of the rumours circulating after the collapse of Unidata and since, in certain quarters."

Unidata was a short-lived joint venture undertaken in 1973 by Philips with Germany's Siemens and France's CII in a bid to produce a European answer to the U.S. dominance of the large computer market. Unidata failed, de Vos said, because "We mis-evaluated the political issues."

The current rumours he referred to are understood to be that Philips has been chosen by a consortium of office computer makers.

After Unidata, Philips chose to concentrate on the market for office computers—a term which it claims to have coined—with impressive success. Now, Philips has over 75,200 installations worldwide, with an average of 15 per cent of the market in each of its countries of operation, where "we are always in the top three," says de Vos.

Of the new system, the P330 is a big brother to the P310 and the P320, and can handle input and output from the flexible magnetic discs of the P310, the magnetic ledger cards of the P320—or both. This combination is claimed by Philips to be unique. Prices are expected to start at £12,000.

Reduction of fouling saves power

SIGNIFICANT energy savings in refinery and petrochemical operations are reported by Essochem Europe affiliates for an energy conservation system they are now actively promoting. The system involves plant simulation and antifoulants marketed under the Corxit brand.

The P400 range has always been promoted as a bridge between office computers and expensive mainframes: Horsnell described the appeal of the new computer as: "It allows users to grow from a single workstation magnetic ledger card system to a seven terminal network. This is the only system available which allows this."

P430 — or enhanced P410 — prices will start at about £19,000.

Easier to open the pack

THOUGHT to be Britain's first "E" auto-sealed carton which can be opened by means of a tear strip, a design produced by Corrugated Products, King Edward Park, Lockerbie, has been developed for large detergent cartons from £10 size upwards.

But the tear strip carton is thought to have applications in other areas including confectionery and the whisky industry.

The no-fall tear strip will be available in two forms. A thin poly strip located on the inner wall of the carton cuts through the carton when pulled by a

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LONDON
April 10 & 11 1978

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The Management Page

David Fishlock reports on why Merck is launching its drug for the 1970s in Britain

The 'better aspirin' that may cure a drug giant's headaches

MERCK, Sharp and Dohme, the U.S.-based pharmaceutical group, has not had a big commercial success since the 1960s. A third way to concentrate almost exclusively on ethical drugs, says Cohen, over-the-counter medicines and "fringe medicine" products such as

chemicals — which Merck was in originally — to pharmaceuticals by buying the drug company Sharp and Dohme in 1953, compared with such countries as Britain and West Germany (where MSD's last drug was launched). Nevertheless, they stress, Britain is no "soft option" in terms of drug regulation, but a powerful example

of the bureaucratic process for drug licensing in the U.S., which can delay a launch by four or five years. Mr. Nicola Pignatelli, Cohen's new deputy, and recently recruited from running Gulf Oil's international operations from London, has been a long-serving member of an overseas panel advising MSD on international relations. Pignatelli

Cohen's view, "could become one of the major products of the industry in the next few years."

Dolobid, although the result of a deliberate search for a pain-killer free from the side-effects of aspirin for those obliged to take several doses a day, will not in fact oust aspirin and other over-the-counter analgesics. For one thing, it will be available on prescription only — as indeed, states Cohen, would aspirin be if it were discovered to-day. For another, it will be much more expensive than rival painkillers. And a third factor is that MSD admits that its new drug does not have the powerful anti-pyretic (temperature-lowering) properties of aspirin.

Even so, what MSD claims it has discovered in a search that began in 1954 is "a better aspirin" for those people who suffer from chronic pain — from rheumatism, arthritis, etc. The scientists say it is four times as potent, with a longer half-life, and much less of an irritant — "everything we had hoped for." People can take it overnight and wake up free from pain.

Dolobid, however, is not typical of the mainstream of Merck's research effort to-day. It only ameliorates the symptoms of disease. Dr. Roy Vagelos, president in charge of research, claims that MSD probably does more research in preventative medicine to-day than any other drug company. A former university professor who had "never made a drug," Vagelos joined MSD only three years ago, inheriting one of the oldest drug industry research efforts — it began at Merck in 1932. The big innovations that interest Merck are not achieved by two-man units, he says, but by "critical masses" of the order of 250 people. He directs about nine teams of this size, engaged in what he calls "basic targeted research." It requires

close interaction between many disciplines to design a drug with the specificity demanded to-day. The targets, says Vagelos, are tough but self-evident — "recruiting the best people in the world is really my problem."

Serendipity — the world of Walpole invented for the faculty of making happy discoveries by accident — is a word often heard around Merck's two main research centres, at Rahway, New Jersey, and West Point, Pennsylvania. Between them, the two laboratories account for about 80 per cent. of MSD's research effort. Serendipity steered the scientists from a drug that might have prevented malaria but proved too toxic, to the first of its animal health products — a business that reached 15 per cent. of sales last year.

In spite of a large programme on antibiotics there is general recognition at MSD that antibiotics will never prevent disease. Ultimately the organisms causing disease will acquire immunity to every antibiotic. Vaccines, Merck management firmly believes, are a much more promising quest. But here above all a big team with many different scientific disciplines is essential. Vagelos has about 11 kinds of vaccines at various stages of research or development, for bacterial as well as virus diseases.

Success can bring its own problems for researchers. One is the "development trap," when the research team becomes so captivated by the problems of developing a discovery into a new product — a lengthy process which these days can also demand much first-class science — that it neglects the more basic search for new compounds and new mechanisms for combating disease. "Our solution," says a senior bacteriologist, "is to set the research far enough away for people to have time to think." He extricated his team from one development trap by setting up a new research group 3,000 miles away, in Spain.

Another trap is to expand research facilities faster than the research management can accommodate without disrupting the research programme itself. For that reason, MSD is treading warily in planning its next big research centre. But one decision has already been taken, says Barry Cohen — the next big laboratory will be in Britain.

Product design: a raw nerve

THE LAST thing the galaxy of top businessmen and designers expected from the "little woman" — as she described herself — was a series of searing blows below the belt. A few minutes later, heads were shaking in irritation, or bowed in pain, as their illustrious



Helen Robinson: "It's just like Alice in Wonderland"

the product seem an untidy area for top management. She complained — she was exempting her own organisation from such blame. With committees, sub-committees and the attending of meetings with Government departments, there was little time for the chief executive "to effectively accountable for only thing in the long run: really matters," Mrs. Robinson argued.

Later in her speech she had touched many a raw nerve with her call for a loosening of "the reins of incest administrative technique which produce little but a for politicking," so that management "could concentrate on the shape things to come."

Accusation

Unrepentant after her setting address, Mrs. Robinson has since been prepared to insult to injury. She was many companies of having priorities turned upside down of putting such matters as image with the City far behind their scale of priorities. getting the right products the market, in the right and at the right price, just like Alice in Wonderland she maintains.

To back up her case, she counts her experience out in field, when she accompanied Debenhams' buyers to the rooms and factories of suppliers. The purchasing of a company such as hers, 70 stores, is unusually so the suppliers regularly out their top brass: the aging director, and his tors of marketing and plus — quite often — the production director. But the of times they presented one with responsibility sign — either in narrow or all terms — "can be count the fingers of one hand," Robinson says sadly.

owners considered the all-too-serious import of what they had expected to be a lightweight after-dinner speech.

What Mrs. Helen Robinson, Debenhams' chief stylist, was complaining about in her speech to the annual dinner of the Society of Industrial Artists and Designers, was the low priority given by much of British industry to good product design. Her impact was all the more telling for the fact that her definition of "design" was not confined to styling — which is what the term "industrial design" has unfortunately come to mean in this country (see this page, March 14) — but the entire design process, including the product's suitability for efficient manufacture and its economic viability. "The design and making of

Ranking '76 ('75)	Company	Sales \$m.	Ranking '76 ('75)	Company	Sales \$m.
1 (1)	Hoechst (W. Ger.)	1,560	14 (11)	Rhone-Poulenc* (F)	444
2 (2)	Merck & Co. (U.S.)	1,394	15 (21)	Takeda (Jap.)	443
3 (3)	American Home Prod. (U.S.)	1,387	16 (16)	Schering-Plough (U.S.)	640
4 (4)	Hoffmann-La Roche (Switz.)	1,148	17 (14)	Squibb (U.S.)	630
5 (5)	Ciba-Geigy (Switz.)	1,097	18 (19)	Johnson & Johnson (U.S.)	623
6 (10)	Bristol-Myers* (U.S.)	1,063	19 (17)	Sterling Drug* (U.S.)	616
7 (8)	Pfizer (U.S.)	930	20 (20)	Glaxo† (U.K.)	605
8 (7)	Warner-Lambert (U.S.)	916	21 (22)	Abbott (U.S.)	511
9 (6)	Bayer (W. Ger.)	890	22 (23)	Beecham (U.K.)	495
10 (9)	Sandoz (Switz.)	881	23 (25)	Schering AG (W. Ger.)	446
11 (12)	Eli Lilly (U.S.)	761	24 (27)	Alkermes (U.S.)	436
12 (15)	Boehringer-Ingelheim (W. Ger.)	579	25 (24)	Cyanamid (U.S.)	426
13 (13)	Upjohn (U.S.)	495			

Notes: * Estimated. † Includes food.

Sources: Chemical Insight, No. 140, December, 1977. 44, The Keop, Blackheath, London SE3 8AF.

Executives speak, for example, of new vaccines that may eradicate pneumonia, hepatitis, even tooth decay. They hint at a new motivating agent "that may arouse people quickly from a deep stupor," and even a drug that may "cure" obesity.

Ideally, says Mr. A. E. (Barry) Cohen, president of MSD International — which accounts for almost half MSD's sales — the company needs one big success every decade, and one or two important new drugs on average every year. He believes the big one for the 1970s will be Dolobid, the new analgesic, announced yesterday, which MSD plans to make and market worldwide from Britain.

Cohen, 41 and Indian-born, sees Merck as future market leaders in pharmaceuticals. To-day it ranks second in sales to Hoechst in the most recent Chemical Insight league table of leading producers, having overtaken American Home Products in 1976. It reached this position, he says, by taking certain key management decisions over the post-war years.

One was to be a research-based group, genuinely searching for original products. MSD executives claim quite different motives. One is the

toothpaste and hair treatments merely dilute the innovative effort. Last year MSD sold its Calgon consumer products business to Beecham for £40m. But why Britain as the launchpad for a product he rates as importantly as Dolobid, the drug MSD invented to replace aspirin? Are Britons, for whom 27m. NHS prescriptions are written each year for pain-killers (a £24m. market), to be the guinea pigs for the latest discovery of Merck's American research?

MSD executives claim quite different motives. One is the

to the regulatory agencies of other countries.

The second reason for selecting Britain is that it accounts to-day for about one-third of its sales in Europe; is MSD's longest-established overseas operation — just 50 years — and, moreover, MSD is a company the National Health Service recognises as an important source of original medicines. Executives cite the fact that in 1976 Dr. David Owen, then a Minister at the DESS, personally announced plans to invest £15m. in a new plant at the Ponders End factory of Thomas

sees MSD as a multi-national which is well-tolerated by the Government in Britain, where any serious threat of nationalisation of the drug industry has receded beyond the horizon.

Merck believes that this is the first time a foreign drug company has chosen Britain from which to launch a major new product. Initially, it plans to import the raw material from its Stonewall, Virginia, plant for a seven-stage synthesis which, it is estimated, will add about 30-fold to its value. Britain will be responsible for worldwide supplies of what, in

BUSINESS PROBLEMS

BY OUR LEGAL STAFF

Claim and counterclaim

In 1968 I sold my business after 24 years of successful trading leaving part of the purchase price to come later and rented the premises to the purchaser. After three years the purchaser claimed the business was not what it was made out to be and issued a writ claiming rescission of the contract. No further money, no rent was paid. In 1971 the company was compulsorily liquidated and the purchaser walked out. He has done nothing to bring his case to trial and my solicitor tells me that if I go to court and apply for the action to be struck out, I also lose my claim for the balance of the purchase money and for rent. Last August he told me that he had arranged with the other side to have the matter go to arbitration, but nothing seems to have happened. What, please, do you advise?

We agree that the matter appears to have been handled in a very dilatory manner on your behalf. You can state out a claim without losing the counterclaim, although by now both might be in jeopardy. If the company which you say is in liquidation is the purchaser, your counterclaim may have little practical value in any event. You might do well to instruct different solicitors to take over the matter and press for a speedy resolution, if any resolution is likely to produce practical results. You are not obliged to go to arbitration unless you have agreed in writing (for example, in the contract) to do so.

Company loan

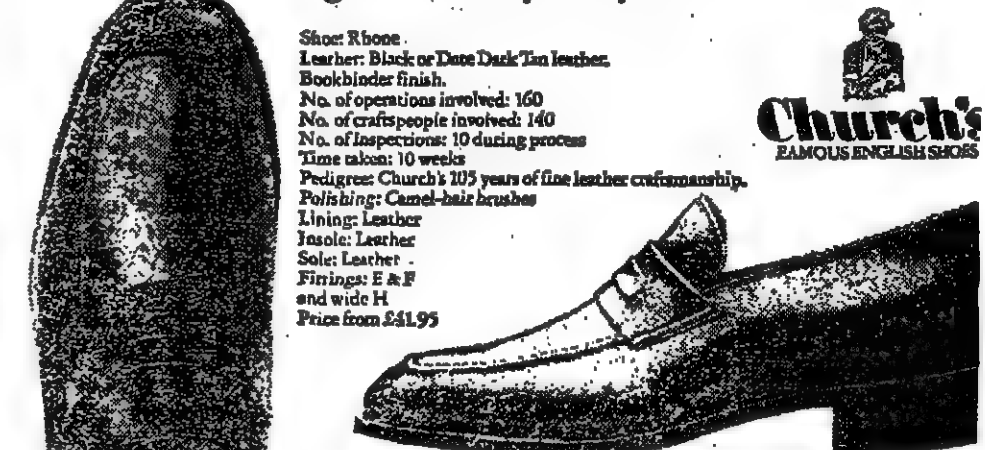
I hope to set up a small company with a £3,000 loan and an overdraft. (1) Would a repayment of the loan be assessable as a distribution? (2) If the loan were by means of a loan stock and the company failed, would the loan stock be eligible as a capital gain tax loss?

It is unwise to set up a close company without seeking professional guidance beforehand, unless you know more about tax law than your enquiry suggests. Briefly, the answers to your questions are (1) no, but it might lead to an apportionment under paragraph 12(1) (a) of schedule 18 to the Finance Act 1972. (2) yes. Close company taxation is beset with pitfalls for the unwary and self-help is likely to prove a false economy.

No legal responsibility can be accepted by the Financial Times for the answers given in these columns. All inquiries will be answered by post as soon as possible.

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IT'S GETTING BETTER ALL THE TIME.

Tucking away the future

by CHRIS DUNKLEY

Every now and then a programme is produced which seems from all the advance publicity in Radio Times, Press handouts, preview columns and so on to promise to be quite an ordinary, unremarkable thing, but which then sneaks out of the cathode ray tube into your sitting room and—whacks you round the ear with a cricket bat.

It happened on Friday with an edition of BBC's *Horizon* called "Now The Chips Are Down". By its very nature, of course, *Horizon* is rather more likely than most programmes to produce this sort of effect. Being (as I assume, anyway) concerned with the idea of keeping the intelligent layman provided with continuously revised and relatively easily interpreted maps of territories being explored by the sciences, it is a lot more likely than say—*Gardeners' World* or *Coronation Street* to present the viewer with mind-blowing ideas.

which recently celebrated its 500th edition, may occasionally come up with a programme having a similar effect. But the early evening slot (implying a lot of child viewers), and the long standing traditions of *Tomorrow's World*, have brought to the series the sort of mechanical gee-whizzery that was once, and to some extent still is, characteristic of the Science Museum. There is nothing wrong with that: *Tomorrow's World* is not only informative but often highly entertaining.

The great strength of *Horizon*, however, is that its editors, including Simon Campbell-Jones who is now in charge, always seem to have been willing—in fact keen—to move outside the purely mechanical or theoretical aspects of science and to look piercingly and often sceptically at the social applications and effects of whatever scientific harvest of horror may be the subject of the week.

Last week it was microprocessors, and if Edward Goldwyn's account of the development of these little silicon chips (hence the title) is anywhere near accurate then the extension of

Horizon to allow for a studio discussion was, however unusual, still nothing like enough. It was, in fact, one of those rare programmes which are so interesting that even though they leave you seething with annoyance that they have not gone a great deal further.

"Now The Chips Are Down" begged at least as many questions as it answered. It started with a history of the microprocessor and in the first few moments declared that they are "the reason why Japan is abandoning its ship building programme." Unless I missed some of the things the programme never explained. Another was exactly what a silicon chip is: it may be enough for some to be told that it replaces transistors which in turn replaced valves—but others among us still need to be told exactly what transistors and valves do. (Or did.)

The growth of the chip industry in "Silicon Valley," spreading outwards from Professor Shockley at Stanford University, via the Fairchild

Company, was graphically conveyed. The industrial process by which the chips are manufactured was intriguing, but less clearly explained: nobody ever said what silicon is, so hearing that a second layer in the microcircuit "grows" over the first was a little baffling.

Yet haste was understandable, because it was the uses of the chips that really concerned Goldwyn: it was he who told us the silicon chip that made possible pocket calculators and digital watches, and with the digital watch Europe lost a £200m. industry to America. It was the silicon chip which was used to turn petrol pumps into automatic dispensers—thus making pump attendants unnecessary.

Now supermarket checkouts are moving in the same direction, and we saw warehouses being run by machines using chips. *Horizon* did not actually show a mechanical television critic, but it did show how two or three "word processors" can do the work of 10 typists, given a series of standardised paragraphs. Other industrial applications rapidly became obvious, and the programme even touched on automated medical diagnosis and farming, showing a tractor early ploughing a field without benefit of driver.

The programme's normal 50 minutes came to an end with the assertion that there had been a terrifying silence from the British government on the question of what effect this revolution would have on society. And for once the word "revolution" seemed quite justified: the programme had done enough to show that the effects of unlimited use of microprocessors could conceivably be as profound as the effects of the first industrial revolution.

The studio discussion, chaired by Richard Kershaw, which followed had a highly impromptu look and feel about it, which was not particularly surprising since it was not billed. Nonetheless it did manage to cover a lot of ground: the organisation of a society in which lifelong work may no longer be common; the problem of distributing wealth once machines have taken over much of the work of the world; standing in the hardware and software markets, and so on.

It was a brave and certainly an interesting attempt to provide a suitable commentary on the startling facts brought together in Goldwyn's programme. And it should be emphasised that the programme was one of the most arresting to have been broadcast in years.

It is possible, I suppose, that it was a lot of fuss about nothing; or at any rate that *Horizon* had vastly over-estimated the significance of microprocessors. But if so the programme should never have been shown.

If not, and the importance of these little chips was estimated fairly correctly, then the criticism that must be made is of broadcasting systems which will allow such material to be tucked

away in a programme on an avowedly minority channel, not even starting until 10.15 by which time most viewers have switched off and gone to call the cat in from someone else's garden.

It is as though the Financial Times were to have a full account of an impending 1978 Wall Street crash, and insist upon tucking it away at the bottom of page 29 because that happens to be the place for news about foreign banking.

Perish the thought that the workings of Fleet Street as a whole should be held up as an example to television, yet it is worth noting that when the Rome correspondent (or the political editor, or the science correspondent) of a newspaper feels that he has an item worthy of leading the paper, he will say so to the editor and stand a fair chance of being given plenty of space on the front page.

What this *Horizon* really needed was a pair of 50 minute programmes plus a 50 minute discussion on successive nights—or better still a whole evening devoted to the topic. Furthermore the duty of the BBC as journalists was either to put it on BBC1 or to promote it a lot more heavily on BBC2.

The argument of the broadcast—certainly a flexible scheduling system allowing this sort of thing to happen much more often—was, I suspect, a lot of doctrinaire claptrap, having rather more to do with anxiety over ratings than any consideration of excellence.

The irony is that since the very beginning of BBC television, drama has occupied a special place, with few of the restrictions suffered by current affairs or documentaries in terms of tailoring material to fit slots. Thus James Cellan Jones's production of George Farquhar's 270-year-old Restoration comedy *The Beaux' Stratagem* was able to run for two hours and five minutes right through peak viewing time on BBC1 on Sunday night.

As it happens it was a highly successful production, having a big cast with no weak links, excellent design by Tony Abbott with every scene photographed against a dark brown or black background which suits colour television wonderfully well, and with direction from David Jones which sustained the required pace but eschewed the tedious tricks which some other directors have felt necessary in televising Restoration comedy. The play itself has lasted incredibly well, perhaps because it contains more steel than most of its contemporaries.

It was very pleasant to finish the week with a whole evening of Farquhar. But surely we should be allowed to spend an evening also just one—on the course of the current industrial revolution, which, according to *Horizon*, is going to alter not just the lives of our distant descendants, but our own—and pretty soon.

Chicken Soup with Barley

by B. A. YOUNG



Martin Friend, Adrienne Posta and Barbara Young

Sarah Kahn and Harry Kahn, sive of the anti-Fascists in 1936, the heads of the family whose fortunes Arnold Wesker follows in his Trilogy, meet defeat in Spain, is a distillation by different ways. Weak, idle, Stalinist and builds hand-made shifty Harry sinks willingly into furniture in Norfolk, taking his final decrepitude, not caring Sarah's daughter Ada with him. (As Sarah says) to live and not Young Ronnie, who at school was crying to die. Sarah, who has to be the great Socialist novelist, makes his life to nag him into becoming an unhappy chef in a manhood, remaining unchanged Paris, disillusioned not only with the Party but with life.

Wesker charts this progress with mastery understanding. His characters are portrayed, not necessarily in profile detail, but in just as much well-chosen detail to make them live as part of the landscape of East End society. Life in the Kahns' home involves one as if one were a long-standing part of it, whether in the played in their different ways in Barbara Young, erect, dictatorial, certain of the socially therapeutic value of cups of tea, and Martin Friend, capable even after two strokes of hysterical despair is kept at bay by Sarah's strength, her naive credulity, capable of controlling his bowels. Around them, their society disintegrates. Monty, most aggressive, his sick girl.

The musical speech of the first-generation English East Enders is handled with great skill, its intrinsic humour never self-conscious or intrusive, though I did feel that some of the comrades were using vowel sounds that would have seemed a bit posh to their mates. The production, under Anthony Cornish, is a good one, inhabited by a company easy to believe in. Perhaps Frank Baker looks a good deal too old to be a 16-year-old schoolboy in Act Two (though it's fascinating to watch him in the mannerisms that when *Roots* comes next month, we shall see copied by Beatie Bryant); in the final act, his flamboyant ambitions discarded, he moved me more with his simple distress than with his extemporised poetry ten years before. As his sister Ada, Adrienne Posta is truer to life as the gamine activist in her teens than later as the immensely smart political drop-out complaining of her fellow-workers' lipstick.

Bishopsgate Hall

Hamish Milne by DOMINIC GILL

Hamish Milne is the pianist whose record debut of Liszt-Busoni and Reubke on Oiseau-Lyre made such a striking impression last year. He is not new to the London concert platform, but his appearances are comparatively rare—too rare for a pianist of his unusual gifts: quick sympathy and an impeccable technique in the service of an authentic full-blown grand-romantic manner, never overblown, but carefully controlled.

He had begun with Busoni's arrangement of the Bach "St. Anne" prelude and fugue, grandly conceived and powerfully weighted; and by contrast a Milne's second record, recently released, a double album more constrained, at its climax even CRD 1038/39, is devoted to a rather oddly understated, but survey of the work of Nicholas Mether (1880-1881)—and in his passionate op. posth. (a re-

jected last movement for the G minor sonata) took fire: splendid account, beautifully shaped and detailed, nicely capped by the Liszt-Schumann Wiedmung for an encore. Milne has played enough in little halls around town: we should hear him in the Elizabeth Hall soon.

A practical note: however sentimentally attached the City Music Society may be to the shrill treble and thin, tangy middle register of Myra Hess's old boudoir Steinway, the time is surely not far off when they should think of matching the high musical calibre of their series with a proper concert grand?



Branda Brice, Tom Conti, Ian Ogilvy and Zee Wasmaker in 'The Beaux' Stratagem'

Air Gallery, WC2

Campiello Band

After some lighter-hearted forays into crypts and foyers at the National Theatre, the Campiello Band, Michael Nyman's band, has settled down into the role originally conceived for it as a "serious" (though by no means humourless) experimental group. The ensemble still plays the same bizarre collection of instruments, but the camp in Campiello has cooled; the more exuberant Verdi arrangements have been discarded; and even the players of the non-chromatic instruments like curlics, shawm and bombard, as well as those of the tricky reeds and lyra de braccio, have been persuaded, more or less successfully, of the virtues of playing in tune.

The programme on Monday of the Campiello's first, serious London concert, given at the Air Gallery in Shaftesbury Avenue, was devised and composed by Nyman himself, and contained no arrangements at all. Closest perhaps to the genre, at least of sassy rearrangement was in *Re De Don Giovanni*—the first 16 bars of the Catalogue Aria; dismantled and elaborately reassembled for piano, two violins, harp, euphonium, bass clarinet and Chinese flute; though in its new form, far more like a medieval Paul Anka's *Diana* than anything from Mozart.

It was an evening, indeed, of familiar, harmonic sequences made still more familiar variations on a tonal theme, treated with simple chromatic reverence, laid out in simple patterns em-

broidered in simple additive textures—no working of great application; but nothing either profound or coy; a refreshingly good-humoured programme of 14 short pieces, none long enough to labour, brief facets and reflections of a single view.

The most abstract of the concepts, a single piece called *A Walk Through It*, part of a larger projected work, gave a formal framework to the sequence, re-appearing four times in different guises: at first a long-sustained, slow-shifting chord held against a spoonful of sweetness, but less busy, less insistent; a faster, more rhythmic, the third, the biggest, most jubilant variation, a logging 15-note motif, against the same rippling piano, quick, lucid mechanism; the fourth, the last, a swirl of 16th-notes, virtuosic elaboration, driven to a sudden, breathless end.

And along the way, beside the Walk, variety of views, seen in essentially of the same scenery—some of them unexpected (Is *a Faci That Mice are attracted by Music*, the most grandly orchestrated of the pieces, offered a positively Wagnerian solo for amplified reeds in juicy counterpoint with the ensemble); others less adventurous, and as the sequence progressed, a shade more predictable. *Pretty Talk for George Brecht* was one exhilarating exception: a musical layer-cake on the Caperno Birdseed label, very funny, and in a way very touching. Receptions can, and do, become repetitions.

DOMINIC GILL

Tommy Steele in G & S

Tommy Steele is to play Jack Point in a large scale open air production of Gilbert and Sullivan's *The Yeomen of the Guard* in the moat of the Tower of London.

The production, by Anthony Besch and involving several of the country's leading opera singers, will have a four week season from July 17 to August 12.

It is being presented by the City Arts Trust to mark the 900th anniversary of the Tower of London's White Tower and will be one of the highlights of this year's City of London Festival.

honour and experience with monetary terms," he said. Was he worried about appearing with professional opera singers? "My main problem is not the notes so much as the fiction. Unfortunately, it is not in Italian but in English, which is the worst of my languages." The production is being sponsored by James Burrough Ltd., distillers of Beafestor Gin and represents the company's most important sponsorship involvement to date. A stage will be erected in the Tower Moat, with the Tower providing a spectacular backdrop. There will be seating for 3,000 enabling a potential audience of more than 70,000 for the 24 performances will include Anne Collins, Paul Hudson, Terry Jenkins, Della Jones, Lauren Livingstone and Tom McDonnell. There will be a professional orchestra and chorus.

Festival Hall

Perlman and Ashkenazy

After their much-praised recording of all the Beethoven sonatas for violin and piano, Itzhak Perlman and Vladimir Ashkenazy are repeating the cycle on the South Bank. They began on Monday with two of the little op. 12 sonatas and the "Kreutzer," with the rest to come on the next two Mondays.

The studied sympathy of their duo-playing does not disguise their distinct musical personalities. Perlman is all serenity, long-breathed lines, finely etched; if he experiments it is only in private, and the public results are self-effacingly secure. Were it not for the striking sweetness and delicacy of the sound he makes the performer would disappear behind the music. Ashkenazy's fuses are usually more overt: he conveys a delighted surprise at coming upon this or that passage, and turns it to a new angle as if to view it better. In the D major Sonata of op. 12 on Monday he was unwontedly cautious, as if uncertain at that stage how much he could do without overbalancing the violin—or perhaps the music, which is not the strongest of Beethoven, simply prompted nothing more. Even the Rondo was only moderately sprightly.

Both players warmed more to the third of the op. 12 sonatas, the one in E-flat. Ashkenazy matched Perlman's poise in the Adagio with a wonderfully liquid bass-line which spoke tenderly in the softest possible undertone. He was tentative in the scherzo, but in the Rondo, the semiquavers took possession of his fingers, leaving the violin to sound unfairly tame and sturdy.

It was left to the "Kreutzer" Sonata to draw on their full powers. The outer movements were brilliantly fast, but not so much urgent, as simply mercurial: showers of silver broken by brief, intimate reflections—never heavily pondered, but stated quietly. The centre of gravity was fixed immovably in the great Andante con Variazioni, which trifled and sang more and more richly, each variation seeming to take up the threads of the last without an intervening breath. The movement took on a sustained radiance, and the darker suggestions of the music became luminous in it. Not the only possible view of the Sonata, but a taking lovely one, and realised with effortless grace.

DAVID MURRAY

Four Oscars for 'Annie'

The only controversial note struck at the 50th annual award of "Oscars" by the Academy of Motion Picture Arts and Sciences in Los Angeles on Monday night came from actress Vanessa Redgrave, who, when receiving an Oscar as best supporting actress for her performance in *Judith*, made an acceptance speech which was regarded as "political," by the 500-strong audience.

For the rest, the awards were typically uneventful. As expected, *Annie Hall* came out top, winning the best film award, the best director award for star Diane Keaton, and two Oscars, for best director and best screenplay, for Woody Allen. It was perhaps surprising that Richard Dreyfuss was voted best actor for *The Goodbye Girl*, but once again it was inevitable that *Star Wars* should do well in the technical categories, picking up six awards for sound effects, special effects, art direction, costume design, scoring and editing.

For the second year running Jason Robards was voted best supporting actor, for his role in *Judith*. The best song was "You light up my life," the best foreign language film, *Madame Rosa*, from France, the best live action short, "I'll find a way," from Canada, and the best animated short, *Sand Castle* also from Canada.

Josiah Wedgwood exhibition at the Science Museum

One of the most important and extensive exhibitions in the 230-year-old history of the Wedgwood Company is being held at the Science Museum, S.W.7, until September 24. The exhibition traces the life and works of Josiah Wedgwood (1730-1795), founder of the world-famous pottery company. Numerous aspects of the man known as the "father of English potters" are depicted—including his pioneering developments and his major contributions to the arts; also his personal life and humanitarian principles.

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Wednesday April 5 1978

The monetary run-up

THE MONETARY indicators published yesterday, the last before next week's Budget, are both better and worse than they appear. Take first the drop in the official reserve of foreign exchange last month. The net drop, after omitting various special transactions, is \$100m. smaller than the gross drop of \$381m. and is tiny compared with a total of around \$20bn. Movements of this size, it can be argued, especially at a time when exchange markets are exceptionally unsettled, are too small to mean much one way or the other.

On the other hand, the drop of \$281m. stands against a rise of \$236m. in February and is the first net drop for a good many months past. The change in direction may point to a change in the climate of opinion about the outlook for sterling. What is more, the books were closed for the month on March 28—before, that is, the fairly heavy pressure on sterling which occurred at the end of last week and, to a lesser extent, at the beginning of this.

It may turn out that the actual cost of intervention by the authorities was not large and that leads and lags will be reversed once the lesson of that determined intervention—that there is no intention of allowing the exchange rate to slide precipitately down—has been grasped. But sterling and the reserves are now clearly sensitive to the Budget proposals in a way that they were not a few months ago.

Bank lending

The banking figures, similarly look reassuringly encouraging but leave room for the pessimists to remain pessimistic. There are two opposite kinds of pessimism, of course, about the prospect for economic recovery and the prospect of keeping inflation under control. So far as the former is concerned, it may seem disappointing that the sterling advances of the London clearing banks are (after rough adjustment for seasonal factors) up by rather less than in recent months and that the increase has gone mainly to the services sector. But the financial position of companies has improved con-

A new policy on roads

THE GOVERNMENT appears to have gone about as far as could reasonably be expected towards allaying genuine public unease over the aims and assumptions of the trunk roads building programme and the methods of implementing it. The recommendations of the Leitch committee on the methods used for forecasting road traffic, appraising new road schemes, choosing routes, and deciding design standards have been accepted. A new standing advisory committee, under Sir George Leitch's chairmanship, is being set up to keep these matters under continuing review. Proposals have been drawn up in consultation with the Council on Tribunals with a view to improving procedures at road inquiries. And the first of a new annual series of White Papers on roads policy has been published, setting out among other matters the results of the review of the roads programme in the light of the Government's more selective approach to road construction and the recommendations of the Leitch committee.

The result of these changes will be to create stiffer hurdles for future road proposals—already 34 schemes costing an estimated \$90m. have been dropped to be replaced in many instances by less ambitious proposals costing in all some \$20m., while the standards of many others have been reduced—and to provide a more informed and more open examination of road proposals at public inquiries.

Essential role What the Government has not done, and what it could not do, is to change the basic system by which roads policy is determined and implemented. It is for Ministers answerable to Parliament to decide national policy and to draw up priorities. Neither these broader aspects nor technical issues such as the methods of road assessment which are applied nationally can be suitably debated at local inquiries. New roads can confer considerable benefits on a large number of people over a wide area, but their planning and construction can be extremely disturbing for those living in the

areas through which they are to be laid. The role of a local inquiry is essentially that of providing an opportunity for those who would be adversely affected to express their objections before a final decision is made.

Sceptical

The conduct of these inquiries must however not only be fair but also be seen to be fair, and this in particular means that objections should have an adequate opportunity to test the road planners' case both for building a new road and for choosing a particular route. The Government proposes to meet this in basically three ways. First, the new annual White Papers of roads policy are intended to give both MPs and local interests a clearer and more detailed account of the national roads programme—though it remains to be seen whether there will be any more Parliamentary discussion of these matters than in the past.

Secondly, procedure at inquiries is to be changed in a number of ways, including the appointment of Inspectors by the Lord Chancellor and the holding of pre-inquiry hearings to decide the programme as is now done in major planning inquiries. Thirdly, the Government has undertaken to make much more information available about, among other aspects, possible alternative routes and how its forecasts and standards apply to a particular scheme in its local setting.

These improvements are unlikely to appease the anti-roads lobby although by raising public confidence in the conduct of roads inquiries they may help to isolate the more fanatical opponents. The irony is that the changes are being made when the roads programme is well past its peak and when, according to the Transport Minister yesterday, the main inter-urban needs may be within a decade or so of being fully met. The more sceptical public attitude towards road building could well reflect a sense of how much has already been accomplished, and the Government is right to have seen what could be reasonably done to accommodate it.

A new chemistry of turning coal into electricity

ON A hillside near Schenectady about 160 miles north of New York a research team has begun to demonstrate what it believes will be the technology of a new kind of electricity power station in about ten years' time. For Britain, the pilot plant has two important implications at this stage. First, its further development could draw heavily on research in coal utilisation being done in Britain. Second, it could point a way to overcome one of the most depressing difficulties in power station construction in Britain to-day—the low productivity on power station construction sites.

For the past four years researchers with U.S. General Electric's corporate research and development centre near Schenectady have been developing a new kind of coal-fired power station. Their goals have assumed that environmental restraints on burning fossil fuels in future are going to be very tough in the U.S.; that higher efficiencies can be achieved; that plants may have to use coals dirtier than those burnt to-day; and that the electricity industry will want highly automated generating plants.

In the last few weeks the team, directed by Dr. Roland Schmitt, responsible for the energy research programme, has demonstrated as an integrated system the key components of a new coal-burning technology. What they have is a system which Schmitt sees as the quickest route to a new kind of fossil-fuel generating plant for the U.S. electricity supply industry. In essence it is much closer to chemical technology than conventional power station technology.

The gasifier is the heart of the new kind of power station GE researchers believe could be a commercial proposition by the late 1980s. In effect it would replace the boiler, the dominant feature of fossil-fuel generating plant to-day, and in Britain the cause of considerable delays in construction because of the necessity for erecting these huge structures on site. Grain and lace B are examples of new British fossil-fuelled stations long delayed by on-site problems with boiler erection. But even for countries such as the U.S. where the problems of managing large-site construction are less horrendous, there is a considerable financial incentive to get as much construction as possible done in factories, and shipped to site as tested assemblies. The GE gasifier can be classified as "advanced Lurgi" in gasmaking terms; that is, of the type from which British Gas has developed its famous slagging gasifier-process for making synthetic natural gas. In essence it is a chemical reactor, accepting coal, steam and compressed air (where the gas is a liquid or gaseous fuel). The big problem is ash—the speed with which it erodes the costly materials used in a gas turbine. General Electric has been searching for a new clean fuel to feed the gas turbine—one of its big product lines—since 1945.

Its answer is a new kind of gasifier, first demonstrated at the research centre about two years ago. Although a direct descendant of a technology for making a fuel gas from coal that goes back 100 years—and thus a less radical departure than the fluidised-bed type of gasifier under development in

Britain—it nevertheless includes big technological advances. For example, the gasifier is designed to be continuously and automatically fed with coal and cleared of ash while operating at up to 400 lbs. per square inch pressure, by way of pressurising chambers—like airlocks on spacecraft—at the top and bottom of the plant. Coal dust, a problem because it is produced in large quantities in underground mining but tends to be blown unburnt through a gasifier, is handled by means of a "coal pump." The dust is bound with tar into a black "toothpaste" that can be continuously extruded into the pressure vessel of the gasifier, where it breaks up into lumps of fuel.

Almost concealed among trees on the slopes of a laboratory campus most famous for its electrical and electronic discoveries is a \$3.1m. gasifier called GEGAS-3, built by General Electric, burning coal at the rate of 1 tonne an hour. The contents of its pressure vessel are constantly stirred to keep the wall clear of clinker and the bed of coal broken up and burning efficiently. The researchers believe it will burn any kind of coal the electricity industry may have to accept.

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One feature of the gasifier's design is how little steam it requires, a significant economic advantage. Another—a safety feature—is how quickly the process can be stopped simply by shutting off its air supply. But a feature of all gas-making technology for the past 100 years is how much more of an art than a science it has been. The GE research team has recognised that it has little hope of selling its new-technology package of chemical units to the U.S. electricity industry unless it can show that the package will operate as smoothly as conventional electricity plants.

The clue to this of course is the computer. For the past year the researchers have been programming a computer to run the gasifier, including scheduling maintenance of the plant. Within recent weeks they have been able to demonstrate the integration of all units, by means of the computer, into a pilot power plant with the potential for turning coal into electricity with an efficiency of 43-44 per cent. Britain's latest coal-fired station, Drax B, making the completion of the Drax complex, is expected to have an efficiency of about 35 per cent.

In parallel with the development of the gasifier and gas-cleaning processes the GE research centre has been developing a new kind of gas turbine, designed to operate at much higher temperatures than those used to-day—in the range 2,600-3,000 degrees F. compared with 2,400 degrees F. peak for aircraft turbines. The aim has been to achieve such temperatures without the necessity for

her film—though why it was so boring, was one. Even then, function as driving home the Batterby declared that the only people he had met who disliked it were Zionists and fascists, although he did concede that there might be others.

Lady Seear sees its most vital function as driving home the significance of Clause 111B—people he had met who disliked it were Zionists and fascists, although he did concede that there might be others.

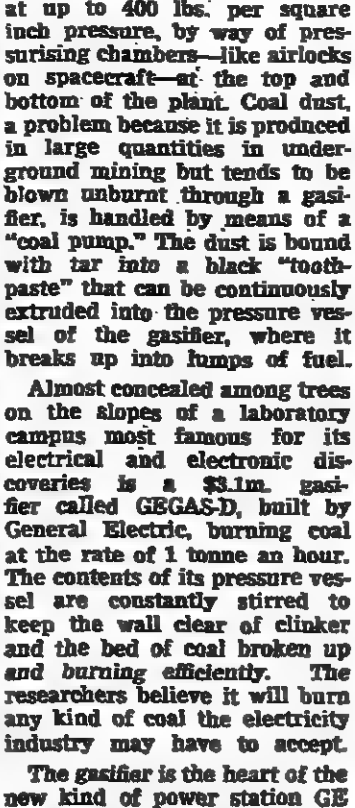
Men's lib. The laws to end discrimination against women job-hunters are not always ineffectual, however. They can even work to the benefit of men, as Sealink's experiences in Scotland prove. Last year, newspapers in Northern Ireland, Scotland and northern England were adorned with advertisements for "Princesses," as the girl couriers on the Larne-Stranraer ships are called (it is known as the Princess Line). Result: Sealink found itself in hot water with the Equal Opportunities Board in Belfast.

So this year, the advertisements were more modestly worded. They announced vacancies for Princess Couriers. Result: no complaints from the Equal Opportunities Board—and six male applicants. They are all Irish. I asked yesterday if there was any reason why the couriers should not be men. The reply on the telephone from Sealink's Glasgow office was brief and gritty: "None."

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ELECTRICITY FROM COAL-1990's STYLE

BY DAVID FISHLOCK, Science Editor



How General Electric of the U.S. envisages electricity will be generated by the late 1980s, using a series of chemical reactions integrated with gas and small steam turbines. Top left is Dr. Roland Schmitt, head of energy research at GE's corporate research and development centre.

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FINANCIAL TIMES SURVEY

Wednesday April 5 1978

Finance and Investment in the U.S.

Because of its dominance, the problems of the U.S. economy tend to become those of the world. They are numerous, but despite this many companies of international standing in Europe and Japan thought it worthwhile to establish American offshoots to take advantage of the giant U.S. market.

Some hard choices ahead

By Stewart Fleming

New York Correspondent

5 per cent. rise in real terms, which has been underway in the three years since the 1974/75 recession. The gloomier forecast is that the economy will not only be slowing down but will be heading for recession at a time of rising inflation which will only make the recession worse.

Fears that events will move in this direction have been heightened by the persistent weakness of the dollar, which poses a threat not just for the U.S. but for the world economy and which is causing mounting anxiety in financial markets. Observers are increasingly coming to the conclusion that the actions the Administration may need to take to help the dollar in the short term will rebound adversely on the domestic economy.

Outside business and political circles there does not seem to be much public awareness of the dangers ahead—apart from a simmering anxiety about inflation, spurred for the most part by sharp rises in food prices in recent months. This is not really surprising since consumers have been enjoying three years of sustained economic growth at a rate well above recent historical levels and seem to be destined to enjoy a fourth consecutive year of growing prosperity in 1978 in spite of a poor first quarter.

Since President Carter took office just over a year ago, unemployment has declined from over 7 per cent. to under 6 per cent. At the same time more Americans than ever before are working as commerce and industry have created millions of new jobs, successfully absorbing new workers, particularly women, into the labour force. (Urban unemployment, with rates among black teenagers running at 30-40 per cent., remains intractable, however.)

Rising incomes and consumer spending have powered the economy upwards and for all the concern about car sales in 1978, conclusive evidence of a weakening of demand has yet to appear.

In the financial markets the Dow Jones Industrial Average has plunged 24 per cent. since January, 1977, and short-term interest rates have risen more than 2 percentage points, taking commercial bank prime rates up to 8 per cent.

The markets—but not all the brokerage houses—have so far taken these adjustments calmly. Trading in the long-term corporate and Treasury bond markets has been thin but creditworthy corporations have had no difficulty in raising debt finance for 20 or 30 years at interest rates often no more than 40-50 basis points higher than a year ago.

The most pressing concern is inflation which is now, it seems, accelerating and is higher than in some other industrialised nations, West Germany and Japan in particular. The evidence is not limited to the recent surge in food prices, increasing social security payments, the rise in the minimum wage or the prospective rise in energy costs as part of an energy policy or simply to help the dollar.

The inflationary pressure can be detected too in what are given recent productivity trends, inflationary wage settlements. Evidence of declining produc-

Upturn

Commercial bank credit too has been readily available. It is only in the past few weeks that the big New York City banks have been seeing real signs of an upturn in corporate borrowing and even yet it is too early to be sure the increase will be sustained—although the general view now is that it will. Indeed, some economists have expressed real concern about a tightening of credit later this year.

There has not been much action in the equity finance market and there is growing concern about the depression in share prices on the grounds

The Carter Administration is correctly bringing the inflation issue to the front of the economic policy debate but in doing so it runs the risk that if it fails to find an effective anti-inflationary policy the debate will provoke price and wage demands designed to protect companies and workers from inflation.

There is a growing recognition, too, that the decline in the dollar may have a more severe inflationary impact than the significance of imports in the economy might suggest. There is no doubt that U.S. car prices

for example, especially in the sub-compact sector, have risen more sharply because of price increases on leading imported makes prompted by the dollar's decline.

Domestically as well as internationally the dollar is thus becoming a more and more pressing problem and heightening the nervousness of the financial markets. There is scepticism about whether the most widely recommended "solution," an energy policy involving higher oil prices to curb imports, will have the effect needed quickly enough, even though it would undoubtedly provide much-needed reassurance about the President's own standing.

search. American uses particularly identified types of der development. Research centre under the auspices of the Board of Energy. Carter and his political allies contemplate the outlook for the U.S. economy and financial markets they would be hard-pressed to conclude that time is on their side for dealing with the economic problems which could affect the voting.

Many economists outside the Administration are already predicting that by early 1979 the economy will be heading for a period of significantly slower growth than the annual

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American business is watching anxiously to see whether the trick can be turned. There are many who say that the political commitment to keeping

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Growth fails to boost confidence

IN THE first quarter of this year, the U.S. became the world's first \$2,000bn. economy. There has been no rejoicing at the achievement of such a landmark, or any celebration at the fact that the country this month entered its fourth consecutive year of sustained economic growth.

One of President Carter's misfortunes was to have taken the helm at a time when, peering backwards in order to forecast the future, many economists and businessmen were expecting signs of a recession. While the President's policies in his first year of office did little to dispel this pessimism, the actual performance of the economy gave better grounds for confidence.

Yet confidence has been in short supply not least because of the shocks delivered by the 1974-75 recession. These two years yielded declines in the real Gross National Product for the first time since 1946-47. During the whole of the 1960s, moreover, there had been no single year in which GNP had fallen. Thus American business had come to believe in steadily increasing prosperity. But the 1970s have produced a world of unexpected and dramatic change.

Reminders

Three years of economic growth since 1975, at an historically rapid pace have not been sufficient to repair confidence shattered by the oil embargo and the shift of financial resources to the Middle East. Real growth there has been since 1975, but it has been accompanied by constant reminders that the U.S. economy is far more vulnerable to the twists and turns of the international economy. American business, which has helped to create the world's present economic interdependence, has been made painfully aware that it can no longer ride above a storm in world markets.

Domestically, the vulnerability of the U.S. has been demonstrated by increasingly volatile economic development, and abroad by the fragility of the dollar. Annual rates of GNP

growth in real terms since 1970 have ranged from minus 1.4 per cent. in 1974 to plus six per cent. in 1978. Within a single year, economic progress has been more of a switchback ride than a steady progression. In the fourth quarter of 1976, for example, GNP growth was 1.3 per cent. in real terms and the following quarter it leaped to 7.5 per cent. Inflation rates have been no more steady.

In the placid post-war period up to 1970, American business could plan on the basis of price stability as well as stable growth for inflation lodged satisfactorily at around 2 per cent.

During the last seven years, however, prices have never increased at a rate below 4 per cent. They ran close to 10 per cent. for two consecutive years, and are currently locked into a 5 to 6 per cent. rate of increase and may well be rising even faster.

This climate has made the job of running a business in the U.S. immensely more complicated for executives who learned their skills in the calmer 1950s and 1960s. Managing stocks, controlling costs, planning manpower requirements and predicting market conditions have all become much more a matter of finesse.

Uncertainties have been compounded by a lack of consensus on what the nation's economic priorities should be. During the past year the disagreement between the administration and the financial community, conveniently labelled Wall Street, has if anything widened, with the Federal Reserve sitting uneasily in the middle trying to pursue a money supply policy which has satisfied neither.

For at least a year, Wall Street has been preoccupied with the rate of U.S. inflation and the country's failure to bring it down more in line with the prevailing rates in West Germany and Japan. It is argued that a 6 per cent. rate of price inflation has fast become part of the U.S. economic structure and that as a result major perils lie in wait for the economy.

These anxieties were somewhat muted in the second half of 1977 when the consumer price index slowed down to an annual rate of advance of a little over

4 per cent.—but then the renewed instability of the dollar. President Carter's proposals for a budget deficit of around \$50bn. for 1978-79, followed quick signs of a double-digit annual rate of inflation in the January economic indicators, have added to the clamour for the Administration to identify inflation as the Number One public enemy.

By late March there were signs that President Carter was ready to do so, although the Administration's counsels were apparently divided as to what the precise nature of the attack should be. Seen from Washington, the economy has been coming along nicely with a 4.9 per cent. real growth rate in 1977, and a prospect of between 4 and 4½ per cent. in 1978.

The Administration denies needed to sustain a 4-4½ per

cent. annual growth rate. Among the several encouraging signs are a 10 per cent. increase in manufacturers' order books since last July, an 8 per cent. annual increase in the production of business equipment, a projected 7 or 8 per cent. increase in business capital spending, and enough spare capacity in manufacturing industry to allow any anxieties about bottlenecks or overheating. While housing starts in January and February were down about 20 per cent. on December 1977, total construction permits were well up.

The arrival of spring weather promised to revive consumer spending and a surge in car sales in mid-March started to give credence to the manufacturers' predictions which had

hitherto seemed excessively optimistic.

The allusion for the Administration is how to maintain the economic outlook and at the same time chip away at the inflation rate.

Many economists believe it is impossible to do both, and that on present trends the inflation rate will be 7 per cent. and rising by the end of the year. Wall Street's economists are arguing that it would be far wiser and probably more effective for an anti-inflationary policy to be based on tightening money supply, reducing the impact on employers' payrolls, which showed that in 1977 the of scheduled increases in social security taxes and the minimum wage, and cutting the projected Federal deficit for 1978-79.

Within days of assuming his responsibilities as chairman of the

Fed, Mr. William Miller was and pointed to a 9.6 per cent. gain in M1 rather than an 8.9 per cent. advance in M2 and not cent. as previously reported. As a result, many a convinced that, sh interest rates, having stable since early January, be moving upwards towards the second half of the year. Whether this will be a drag on the growth remains to be seen, but grounds for fearing forward momentum in economy may well be lost by early next year.

Towards the end of March, the Fed produced revised figures which showed that in 1977 the growth in M1 and M2 had been 7.8 and 9.8 per cent. respectively and not 7.4 and 9.6 per cent. as earlier figures had indicated. The revisions for January 1978 had been even more substantial

Stewart F. and John

Competition spreads on Wall St.

WHILE THE number of public investors in the U.S. stock market has fallen from 30m. to around 25m. so far this decade, America's preoccupation with what the stock market is doing has not been the most remarkable. The most parochial of radio stations think it worthwhile to inform its listeners of the closing average of the Dow Jones Industrial Index, the volume for each day's trading and the most active shares.

The 19 per cent. decline in the industrial average over the past 12 months has almost certainly contributed to a simultaneous fall in President Carter's popularity ratings, for while Wall Street may be debating on a more abstract level what the market is saying to most Americans it is strongly implying that the President is none too good for business.

This is not a judgment with which most Wall Street analysts, brokers and investment bankers would disagree. High priests of finance renowned for their ability to digest a balance sheet grow purple in complexion when discussing the President's

economic policies. Dire warnings of the imminence of Socialism are by no means uncommon in the conference rooms of Wall Street. By and large this is more Wall Street's problem than it is America's.

The dual phenomena of a weak dollar and falls in both the equity and fixed interest markets have occurred at a time when the securities industry has been increasingly preoccupied with its own problems and when some of its members have been in poor shape to cope with such external difficulties. As a result major brokers and investment houses have been as "risk averse" as the institutional fund managers whose business is such a vital contributor to the income of Wall Street.

Institutional trading is one of the industry's key problems, along with governmental pressure to create a national market system and the difficulties of acquiring sufficient capital to guarantee a future when the securities business will be dominated by fewer but larger companies.

The abolition of fixed commis-

sion charges on institutional accounts was mandated by the Securities and Exchange Commission (SEC) from May 1 1975 and its impact was undoubtedly shielded by the stock market recovery of 1975-76. Until last year many brokerage houses had been able to compete in the discounting war sparked off by negotiated rates but the fall in the market coupled with the increasing reluctance of institutions to maintain their equity portfolios produced critical revenue problems for some companies.

Dropped

Negotiated rates are reckoned to have cost the industry close to \$1bn. revenue, with the result that more than one-third of the purely institutional brokerage houses had ceased trading by the end of last year. In 1976 some 63 per cent. of the industry's total income came from commission charges but by last year this had fallen to 44 per cent. In the case of Merrill Lynch, Pierce, Fenner and Smith, the world's largest security firm, commissions have dropped as a proportion of revenue from 46.9 per cent. in 1973 to 32.5 per cent. in 1977.

Against this background the industry has been scrambling to widen its revenue base through diversification into other financial and non-financial fields—ultimately through mergers. Some of the most famous names in Wall Street fell into each

others' arms last year, seeking the protective security of marriage. From Kuhn, Loeb & Co. Lehman Brothers, from Loeb, Rhoades and from Dean Witter to Reynolds Securities, the consolidation among the top firms seemed unstoppable.

Famous names are constantly being linked by the Wall Street rumour machine but most observers are confident that the top 25 firms as ranked by capital could well be the top 20 by the time this year is out.

This is ironic since the SEC's original intent in sacrificing fixed commissions was to increase competition within the securities industry. Destructive competition may not have been foreseen, however, and the discounting on the old fixed rates of up to 60 per cent. has proved an exercise which has done nobody any good—except perhaps the institutions. Earlier this year a serious move did get under way to try and claw back some of the lost revenues.

Donaldson, Lufkin and Jenrette, for example, announced discount limits beyond which they would not go and Goldman Sachs, one of Wall Street's leading block traders, offered some support for this stiffened resistance by declaring that it too would be more discriminating in its charges to institutions.

Some brokerage houses have had increasing difficulty in finding the capital needed to fund the principal transactions needed for positioning, block trading and the execution of

institutional business—strengthening the capital base in view of the prospect of the removal of off-the-floor trading restrictions in equities which is symbolised by the New York Stock Exchange's rule 390.

Although SEC postponed its proposal to remove 390 from January 1, 1978, its disappearance seems inevitable in view of the SEC's mandate from Congress to widen competition in equities through the creation of a national market.

The proposal to abandon 390 was an expression of the SEC's impatience, under the leadership of Chairman John F. Shalvey, with the securities industry's own failure to agree within itself on a framework for a national market and on the necessary steps for its achievement.

Offing

This is a saga which is still unfolding and a confrontation between SEC and the industry, led by the New York Stock Exchange, may well be in the offing. The NYSE has devised a new intermarket trading system (ITS) which will link it with the American, Philadelphia, Boston and Pacific stock exchanges. The Mid-West Stock Exchange in Chicago may also join before the year is out. The scheme was devised by the NYSE as a potential vehicle for creating a national market so earnestly desired by Congress. Computer links between the markets should enable stockholders and

brokers to determine price available for the removal of the ITS as a basis for a national market.

The SEC has so far been enigmatic about what regards the ITS as a basis for a national market. It has set a deadline of September 30 for the industry to certain proposals for this. Specifically, the SEC wants a linking system in place by September 30, orders for particular securities to be routed to the plan has been lodged with the SEC for approval, so it should become apparent what the commission's intentions are.

In addition to market, however, the SEC is pushing for the creation of a national protection fund. Such a fund would replace the order book to match orders in the market, which he is responsible for the very heart of the NYSE's dominance of trading and the exchange's ability to skirt the law. With a detailed response to a request for a set of proposals, the industry is looking at the 750-800 index of competition within securities industry, a steadily expanding immediate future looks turbulent as the recent

John

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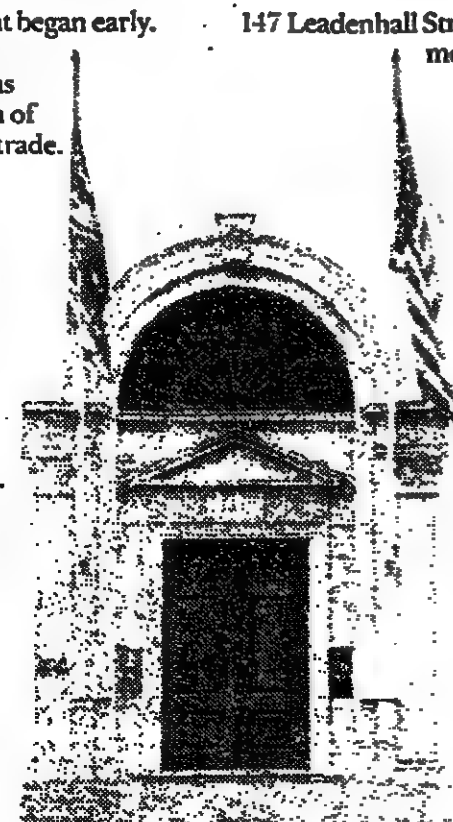
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Inflationary omens for the bond markets

AFTER TWO years of steadily rising prices, expanding new issue volume and healthy profits for investors and trading departments alike, the New York bond markets became increasingly nervous during 1977 and early 1978.

In retrospect, the break in bond prices which ushered in 1977 and left many investors to absorb heavy losses proved to be the bottom of the downward movement of both long and short-term interest rates following the credit squeeze of 1974. Federal funds then traded at a peak of 13.75 per cent. and yields on new issues of AA-rated utilities moved up to 10.6 per cent.

Since hitting a low of 4.53 per cent. at the beginning of last year the Federal funds weekly average rate has risen to a round 6.75 per cent., while commercial bank prime rates have risen from 6 per cent. to 8 per cent. Money market rates like these have risen more sharply than long-term bond rates, however. Thus yields on AA-rated securities are up from 7.8 per cent. to around 8.8 per cent. a few weeks ago over the same period.

The impact of these changes on investors has been charted by New York investment bankers Salomon Brothers in their 1977 annual review of the bond markets. This suggests that during 1975 and 1976 as interest rates generally declined and corporations raised record amounts in the bond market, investors in different segments of the fixed interest sector were able to obtain total returns, including capital appreciation, of between 9 per cent. and 30 per cent.

But in 1977, say the investment bankers, the total return on bonds (measured by price change plus interest as a percentage of starting value) was "just moderately positive for

most sectors of the market and negative for a few obligations."

They point out, for example, that the total return on long-term Treasury issues, which was 15 per cent. in 1976, was zero in 1977, while good quality long-term corporate bonds, which recorded a total return of 18 per cent. in 1976, showed only 2 per cent. last year.

Although investors in the bond markets last year did less well than in the previous two years borrowers continued to raise historically large amounts of new money. States and municipalities raised a record \$45bn. and during most of the year on better and better terms, with interest rates in this sector moving against the general upward trend. Corporations borrowed \$28bn., close to the 1976 amount.

Adequate

But savings flows were more than adequate, especially since the major institutions, pension funds and insurance companies withdrew again from investing in ordinary shares.

The market might well have been under greater pressure had it not been for the willingness—if that is the right word—of foreign investors, mainly central banks, to take up new issues of U.S. Treasury Securities.

Bankers Trust, for example, has estimated that foreigners absorbed around \$32bn. of Treasury issues, close to two-thirds of the marketable securities the government issued. While this foreign investment may have helped to keep down interest rates it reflected in the main foreign central bank support for the dollar.

In retrospect the ability of the bond markets to absorb these heavy financing requirements during most of 1977 is

surprising given the uneasy economic and financial background.

Much of last year was taken up with a heated debate on the course of monetary policy, and by October one of the most common complaints on Wall Street was that in spite of engineering sharp upward movements in short-term interest rates the Fed has lost its ability, or its will, to control monetary growth.

But while short-term interest rates moved up sharply, the fears that the over-rapid expansion of money supply was only fuelling inflation this year and probably next were not widespread enough to unsettle the long-term bond markets severely until the later months. Then, increasingly and into 1978, dealers and investors began to retreat to the sidelines, spreads widened and trading thinned. There was growing awareness that the economy was after all growing more strongly than many supposed and that inflation was showing signs of gathering pace.

Thus as bond market investors entered 1978 they were faced with a succession of disturbing omens.

The continuing weakness of the dollar and the Carter Administration's decision to try and shore it up in part through engineering an increase in short-term interest rates dealt the Treasury sector in particular a blow. This was reinforced by the recognition that the Government budget deficit of about \$50bn. in 1977-78 was on the increase and would be \$80bn. the next year. Analysts pointed out that in what would then be the fourth year of sustained economic growth since the last recession the Government should be cutting down debt, not borrowing more.

To these concerns were added

predictions that demand for the credit could rise in 1978 to levels, with corporate mortgage market and government putting heavy pressures on the market.

These predictions led spread expectations, the term interest rates rose between 80 and 100 basis points and short-term interest to 200 basis points.

With industrialists looking at the 750-800 index of competition within securities industry, a steadily expanding immediate future looks turbulent as the recent

John

Question

Others, however, question the analysis, arguing that the economy is already slowing down and that inflation stick around the 6 per cent. level. On this basis, assumptions of 4½ to 5 per cent. and inflation risk per cent. are put as "soft landing." This was that interest rates are close to their cyclical peak.

The bond markets are poised between these two views. The yields will peak second or third quarter to current levels but with anticipation more, new forward pressure. The uncertainty is compounded by the time assessing whether the Administration's emergency commitment to a tougher stance against inflation is more cosmetic and whether it is pursued. If not, how a new chairman of the Reserve Board, Mr. Miller, attack the pi seem to be handing him

Stewart F. and John

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17. There are nearly three hundred foreign-owned manufacturing firms here alone. And they're expanding and growing every year.

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20. In New York State, we have two hundred and thirty-three foreign banks. They represent sixty-five countries and control in the vicinity of \$58,000 million in assets.

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NEW YORK STATE

FINANCE IN THE U.S. IV

Articles on this and succeeding pages review the extent of direct foreign investment in the U.S., its impact on the economy as a whole, methods of financing purchases and the sectors of industry mainly favoured by the corporate buyers—most of them European or Japanese.

The lure of a large free market

IN THE past five years foreign added some \$3bn. to their direct investment where it is financed by banks in the U.S. They do not measure the total value of foreign-owned assets—funds borrowed in the U.S., for example, are excluded. There are no up-to-date figures on total assets—the last reliable figure being one produced for 1974 which showed that foreign investors controlled assets of \$174bn., nearly half of which was in finance, insurance and property.

Much of the growth has been of the traditional kind, with European, Japanese and Canadian companies investing in U.S. manufacturing industries either through expansion of existing operations or by acquisitions. Unilever's as yet uncompleted purchase for around \$485m. of National Starch and Chemical and the move into U.S. pharmaceutical businesses by such European companies as Glaxo, Beecham, Nestle and Bayer have been among the notable acquisitions in the past year.

But decisions by companies such as Imperial Chemical Industries, Solvay et Cie, and the German electrical giant Siemens to enter into new joint ventures in the U.S. or construct new plants have also figured prominently in the multi-million dollar category of investments.

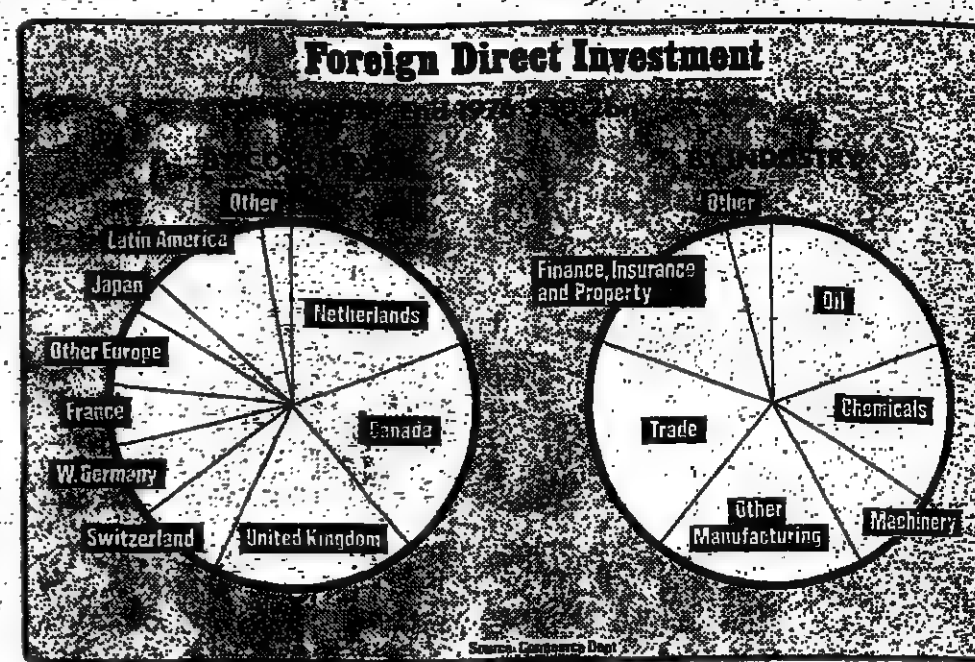
Less well publicised, and sometimes deliberately suppressed, has been the steady flow of foreign investment into U.S. property, farmland and into small U.S. businesses.

There are no entirely satisfactory statistics on the sums being spent, which often represent efforts by wealthy individuals to diversify their assets geographically into the U.S. because of political or social uncertainties in their home countries. This form of investment can best be summed up in terms of

a qualitative phrase "flight capital." While nobody is sure just how much is involved, investment bankers and property brokers in the U.S. are confident the figures are large. Commerce Department statistics for 1976 suggest that some \$500m. was invested directly by foreigners in U.S. property. Not all of this came from the private investor as distinct from the corporate or institutional investor—British pension funds, for example, have been buying some U.S. properties.

But the private investor is a significant figure in the market. Some reports have suggested that last year several hundred million dollars of private foreign capital flowed into the purchase of U.S. farmland. But firm statistical information to corroborate such claims is not available.

The latest surge of foreign direct investment is best seen as a continuation of a trend which got under way in 1973, particularly in so far as corporate investment is concerned. In 1980 Commerce Department statistics suggest that foreign direct investment in the U.S. had a total value of \$70m. The figures measure foreign direct and indirect ownership of U.S. equity assets. They take into account the nominal value of equity, net loans from



the overseas parent and the value of reinvested earnings. Currently a holding of 10 per cent of the voting equity or its equivalent qualifies for inclusion in the statistics, although at that time the figure was 25 per cent.

By 1970 the figure had risen to around \$13bn., but after 1972 growth surged to the current level of around \$33bn.

Inevitably, perhaps, the figures are best treated as a guide. In spite of efforts to tighten up reporting in the wake of the 1973 oil embargo, this is a move which reflected among other things the fear—so far unrealised—that the newly rich Middle East oil countries would start buying up U.S. investments on an unprecedented scale.

In fact OPEC nations have confined most of their investment in the U.S. to a significant increase in portfolio investment and bank deposits. Middle East OPEC nations made net purchases of some \$50d. of U.S. equities between 1974 and 1977 after having been negligible purchasers of U.S. stocks previously. They have also invested in fixed interest securities.

Thus the pattern of direct investment in the U.S. in the past five years has to a considerable extent followed traditional lines, albeit on a much increased scale and with one or two shifts of emphasis such as the rapid expansion of the Japanese presence. This is disguised in the Commerce Department statistics but the Department's study which produced total assets figures concluded that in these terms Japanese investors were the largest single country source, accounting for around a fifth of assets. A substantial proportion of this will, however, have been in banking, for example, rather than representing a long-term equity position.

These factors aside, the bulk of the new investment is still coming from the major West European industrial countries—W. Germany, the Netherlands, Switzerland and Britain. Between 1974 and 1976 Britain was the leading source country for acquisitions, mergers and equity increases, accounting for \$1.2bn. of the \$4.4bn. spent.

So far as the direction of the flow is concerned, the bulk of the funds is still going into various forms of manufacturing, with electric and electronics equipment the leading industry group for equity investment including mergers and acquisitions. In the 1974-76 period manufacturing accounted for two-thirds of the number of transactions, with the electrical sector, accounting for almost \$750m. of the \$4.4bn. of investment identified by value. Non-electrical machinery accounted for \$246m. in this period and chemicals and allied products \$455m.

Although the Commerce Department statistics understate the assets which foreign investors have invested directly in the U.S., the fact remains that across U.S. industry as a whole

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PLANT EXPANSION

(Some major plant expansions announced in the U.S. by foreign-controlled corporations)

Project and State	Location
Shell Oil	Ethylene plant Louisiana
Alumax (controlled by Amex 50 pc Mitsui 45 pc and Nippon Steel 5 pc)	Primary aluminum plant S. Carolina
ICI/Solvay et Cie/Champlin Petroleum	Ethylene cracker Texas
Hoffman La Roche	Plants in Texas and New Jersey
Honda	Motor cycle plant Ohio

BUYERS FROM EUROPE

(Some actual and proposed acquisitions of U.S. businesses during the past year)

Buyer	U.S. Company
Unilever (U.K.-Holland)	National Starch and Chemical
Nestle (Switzerland)	Alcon Laboratories
Thyssen (W. Germany)	Bodd Company
Bayer (W. Germany)	Miles Laboratories
Beecham (U.K.)	Calgon
Henkel (W. Germany)	General Mills Chemical
Recal (U.K.)	Milge Electronics
Turner and Newall (U.K.)	Phillips A. Hunt Chemical
Cadbury Schweppes (U.K.)	Peter Paul
Consolidated Goldfields (U.K.)	Hydro-Condut
Glaxo Holdings (U.K.)	Mayer Laboratories
Tilling (U.K.)	Clarkson Industries
C. and J. Clarke (U.K.)	Hanover Shoes
Boots (U.K.)	Rucker Chemical

FINANCE IN THE U.S. V



The trading floor of the New York Stock Exchange.

Setting up cash for a deal

ONE OF the first things any foreign company planning a U.S. acquisition learns quickly is that financing the deal is generally the least of its problems. The U.S. has the largest capital market in the world and with upwards of 14,000 banks the financial community is hungry for business. If Chase Manhattan turns its nose up at a deal, that is not to say that the First National Bank of Boothill will do the same. It pays to shop around.

Most foreign acquisitions are made via an unadorned cash tender offer. One of the requirements which need to be met when this route is being followed is that the purchaser demonstrates to the Securities and Exchange Commission how it is going to finance the acquisition. For the big Continental companies such as Bayer, Nestlé, or, whichever, this is rarely a problem since they simply transfer cash from their domestic resources. However, for U.K. companies it is slightly more difficult because of the stringent Bank of England exchange controls which limit the amount of capital which can be exported. U.K. companies could send money out through the dollar premium but in practice this is very much a last resort. In practice U.K. companies normally finance the bulk of their U.S. acquisitions either locally or through the Euro-dollar market.

The easiest type of financing in the U.S. is bank financing, and this forms the key plank in most foreign acquisition strategies where it is necessary to raise external funds. One of the obvious advantages of borrowing from a bank is that there is tremendous flexibility. A company might want to refinance its acquisition in the Euro-bond or private placement market at some future date, but in the meantime the acquisition can be financed by bank loans. This enables a foreign company to wait until conditions are just right in the debt markets and there is normally no penalty for pre-paying a term loan early. Consequently, a foreign company could raise a five year bank loan for the full amount of the acquisition and then find after 18 months that the time is right to refinance its acquisition in the long term debt market.

There are plenty of other advantages. A bank line of credit can be put together in a matter of hours for a top corporate name. The amounts of money which can be raised are substantial and run into hundreds of millions of dollars. In addition to speed and size, bank borrowing is done behind the scenes and requires nowhere near as much disclosure or documentation as private placements, for example. For many European companies this is an important attraction.

Naturally, the banks often impose restrictive covenants on the borrowers but there are no hard and fast rules. The bigger the company the less restrictive the covenants tend to be. As far as maturities are concerned

borrowers can normally raise funds for 5-7 years. There are cases of banks going as long as ten years and some are even prepared to lend fixed rate money for that period as well. Once a company has decided to seek bank finance, it has to choose whether to raise it in the domestic U.S. market or the Euro-dollar market. In both cases the proceeds are the same but at any one time one of the markets is cheaper. In the U.S., loans are normally priced according to a formula linked to prime rate with an allowance made for compensating balances but a commitment fee of perhaps 1 per cent is charged. Euro-dollar rates are normally slightly higher than U.S. domestic rates but since the removal of capital controls earlier in the decade both markets appear to have been an equally important source of funds for financing U.S. acquisitions. At the moment Euro-dollar borrowing is slightly cheaper and a good quality company could probably raise five year money at 1 of a per cent over London Interbank Offered Rates (LIBOR).

Choice
Given that bank finance is not normally available for terms beyond 10 years, most companies wish to refinance their U.S. bank borrowings at some stage. Apart from the small elite such as ICI and BP which have gone through the whole paraphernalia of registering with the Securities and Exchange Commission and thereby gained access to the public debt market, foreign companies normally have the choice of tapping the Eurobond market or the U.S. private placement market.

Until the beginning of last year the Eurobond market was closed to U.K. borrowers with the exception of a handful of top names, such as ICI. However, now that it is open again and maturities are stretching out to 15 years it has become an attractive source of finance for U.S. acquisitions. Unlike the bank market, the big attraction of the Eurobond market is that a borrower can raise fixed, as opposed to floating rate money. Since the U.K. debt market has been closed for some years this is especially attractive to U.K. companies. In addition, the degree of disclosure and the documentation is considerably less onerous. The traditional Eurobond investor—the infamous Belgian dentist—is far less demanding than the big U.S. institutional investors when it comes to covenants and disclosure. This is one of the main reasons why the market has been so successful, and on balance U.K. companies normally prefer to tap this market unless it is seen to be much more expensive than the U.S. debt market.

However, the Eurobond market is not always open to U.K. borrowers and consequently they then have to turn to the private placement market.

There are instances where private dollar placements have been done in Europe and in the Middle East but rarely does the maturity extend beyond ten years and apart from the fixed rate this source of finance has little advantage over a traditional commercial bank loan. For domestic U.S. companies the U.S. private placement market is a very important source of finance for periods of 15 to 20 years and upwards of \$200m. is channelled through this market annually. Top quality companies can easily raise anything from \$10m. to well over \$100m. at one go, but it is still a slightly mysterious market for foreign companies and although its advantages are well rehearsed, foreign companies have probably raised less than \$1bn. on this market since U.S. capital controls were scrapped, and the figure may be as low as \$500m.

There are a number of problems. First of all, the main investors in this market—the U.S. insurance companies—have legal limits on how much they can lend to foreign entities. Typically, it is just 1 per cent of their assets. Naturally, this puts a ceiling on the amount of money which can be raised. In addition, the institutions are conservative and put a premium on quality and size. Consequently, it would be difficult for a relatively unknown U.K. company with a net worth of less than \$50m. say, to come to this market. When a foreign company does tap the market it has to disclose a considerable amount about itself and agree to certain covenants which are often more onerous than it is subject to back home. Legal fees tend to be high and one banker in London, for example, cited a case where up to 12 sets of lawyers were involved in a complicated private placement. The big institutional investors are much more thorough than their European counterparts.

However, there are signs that the big U.S. institutions are becoming more agreeable to investing in foreign companies—the opportunity to visit the borrower's head office in Paris rather than Newark, New Jersey, may partly explain this. More important, foreign borrowers are now structuring their loans so that they can be treated as a U.S. domestic borrower. If a foreign borrower can "domesticate" the loan, the amount of money that the insurance companies can put up is considerably increased since they do not have to abide by their 1 per cent rule. Consequently, if a foreign company can prove that its U.S. acquisition is strong enough to borrow in its own right, access to the private placement market is made much easier. In addition, the amount of money available is growing because a number of new institutions are moving into this market such as the Savings and Loan Associations and pension funds.

When the money is available the terms normally look attractive by U.K. standards. A top U.S. borrower would probably be able to raise \$50m. of 15-20

year money at around 8 1/2 per cent. At the moment a foreign company would have to pay a premium but would normally be able to raise the funds at below 10 per cent.

The premier source of U.S. capital for any foreign company is the public debt market which is traditionally referred to as the "Yankee" bond market. The bulk of the money raised here is for foreign Governments and only a handful of foreign companies have access.

The disclosure requirements are such that few companies are prepared to make the effort. When ICI first came to the market a few years ago it had to change its accounting policy and spent a staggering amount of money and legal time complying with SEC rules. Presumably, it feels it was worth the trouble and it now has access to a cheaper source of finance than either the bank or private placement market—at the turn of the year it issued \$175m. of 25 year debentures on a coupon of 8 1/2 per cent. But for most U.K. companies, getting an SEC registration is more trouble than it is worth.

Swaps

In recent months a number of U.K. companies have been financing their U.S. acquisitions through currency swaps. This is a relatively new on-shoot of the back-to-back or parallel loan which has been a popular means of financing U.K. investment trusts' Wall Street portfolios in the past. Continental Illinois Ltd., the U.K. merchant banking arm of the Chicago bank, has carved a special niche for itself in this specialised field. Basically, what CI does is to find a U.K. company with surplus liquidity which wants to acquire dollars and then matches it with a U.S. company which has plenty of dollars and wants sterling. And CI stands in the middle. The currency swap, as its name implies, is a straight-forward exchange of currency rather than a loan agreement and whereas a back-to-back loan can inflate a company's balance sheet and adversely affect its gearing the currency swap has the advantage of being off the balance sheet.

It will only appear as a footnote indicating a contingent liability. CI reckon that around \$350m. of such deals have been put together over the last year. The sums raised vary between \$5m. to \$25m. and maturities of ten years are about maximum at the moment.

While this sort of deal is attractive to U.K. companies at the moment because they have plenty of surplus liquidity its potential is limited for deals above \$25m., since it is hard to find counterparties willing to advance very large sums. For the big company, bank finance will continue to be the main financing vehicle with the Euro-bond and private placement markets providing the opportunity to refinance borrowings at some later stage if necessary.

William Hall

مكتبة النسخ

American Express International Banking Corporation

CONSOLIDATED BALANCE SHEET At December 31, 1977

Assets	December 31, 1977	December 31, 1976
Cash and due from banks	\$ 427,586,000	\$ 351,486,000
Time deposits	694,201,000	567,231,000
Investment securities—at cost:		
U.S. Government obligations	70,177,000	88,373,000
U.S. Government agencies' obligations	23,857,000	40,316,000
State and municipal obligations	176,887,000	165,391,000
Foreign government obligations	227,554,000	173,036,000
Other bonds and obligations	70,769,000	38,953,000
Total (market: 1977, \$570,237,000; 1976, \$510,658,000)	569,344,000	511,069,000
Investment securities—preferred and common stocks, at lower of aggregate cost or market cost, 1977, \$10,553,000; 1976, \$10,817,000	9,581,000	9,733,000
Loans and discounts, less reserve	2,503,744,000	2,030,679,000
559,300,000; 1976, \$51,800,000	127,462,000	85,610,000
Accounts receivable and accrued interest	36,230,000	31,303,000
Land, buildings and equipment—net	148,751,000	122,887,000
57,620,000 less accumulated depreciation and amortization; 1977, \$16,453,000; 1976, \$15,165,000	50,122,000	61,935,000
Customers' acceptance liability		
Other assets	\$4,607,031,000	\$3,751,933,000
Liabilities and Shareholder's Equity		
Customer's deposits and credit balances:		
Demand	\$1,249,405,000	\$ 937,897,000
Time	2,505,597,000	2,036,072,000
Total	3,755,002,000	3,033,969,000
Special deposit liability to U.S. Government	143,653,000	85,000,000
Federal funds purchased and other borrowed funds	22,741,000	15,296,000
Long-term debt	89,770,000	110,334,000
Due to American Express Company	65,651,000	62,008,000
and subsidiaries (net)	149,211,000	82,385,000
Drafts outstanding	88,565,000	74,302,000
Accounts payable	69,532,000	51,522,000
Other liabilities		
Total liabilities	4,394,135,000	3,578,016,000
Shareholder's equity		
Capital stock:		
Preferred—5% cumulative, \$1,000 par value:		
Authorized and outstanding—1977	40,000,000	25,000,000
40,000 shares; 1976, 25,000 shares		
Common—authorized and outstanding	6,000,000	6,000,000
60,000 shares of \$100 par value	31,391,000	28,329,000
Capital surplus	(705,000)	(759,000)
New unrealized loss on equity securities: carried at lower of aggregate cost or market	126,210,000	115,347,000
Retained earnings		
Total shareholder's equity	\$4,607,031,000	\$3,751,933,000

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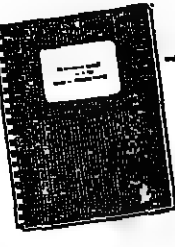
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FINANCE IN THE U.S. VI

Europeans shop carefully



Cutting printed circuit plates at Siemens, Munich.

THERE HAVE been times during the past year or two when the rush by European companies to invest in the U.S. has shown signs of becoming a stampede. While the underlying economic and commercial reasons for making U.S. acquisitions are sound, there is a danger that some companies, in the desire to keep up with the latest fashion, will make bad buys. One is reminded of the period immediately before and after the U.K.'s accession to the EEC, when a number of British manufacturers tried to establish themselves quickly on the Continent by buying a local company and later found they had bought nothing but a collection of management problems. The indications so far are that the new U.S. investors have learnt from these mistakes — and from the "merger mania" of the 1960s.

Most of the acquirers have been taking a cautious and realistic approach. The tendency has been to go for well-managed, medium-sized companies which have a strong position in a particular market — not necessarily a market in which the acquiring company already competes (this could lead to antitrust complications), but one which is near enough to its main business for the management to understand.

Ideally

Ideally, perhaps, the investing company should be so confident in its technology, the quality of its products and its selling ability that it can afford to put up its own factories and attack the market in its own way and with its own people. This was the route followed, for example, by Michelin of France, which since its first investments in the U.S. in 1974 has steadily enlarged its share of the domestic tyre market — mainly on the basis of the technical merits of its products.

Clearly this is a policy which is much easier to pursue if the market has already been de-

veloped by direct exports from the home base. Thus Volkswagen already has a nationwide network of dealers built up from many years of exporting to the U.S.; the products from the German company's new Pennsylvania factory, due to come on stream later this year, have a ready-made outlet. In the same way Sony built its own TV set factory in California, and Honda is planning to build a factory to make motor cycles, perhaps to be followed by a car assembly plant.

Yet even those manufacturers which already have an established market for their products often prefer to acquire a domestic company in the same field. Such an acquisition provides a manufacturing presence in the market more rapidly than the construction of a greenfield plant and often brings marketing advantages. It was for that reason that Matsushita, instead of following the example of its rival Sony, decided in 1974 to buy the TV set operations of an American company, Motorola — although the subsequent performance of that acquisition may have made the Japanese company wonder whether its own greenfield operation might not have been preferable.

As in any other country, the well-managed company with a strong market position tends to be expensive; the owners are reluctant to sell, except at a

price/earnings multiple which some European investors find hard to swallow. The Motorola plant would presumably not have been for sale had it not been in commercial difficulties, in common with most of the smaller TV set manufacturers in the U.S. Philips, the leading European consumer electronics company bought Magnavox in 1974 for much the same reasons as Matsushita.

The idea of deliberately looking for a badly managed company, buying it cheap and then making a killing by turning it round is not one which has appealed to European investors. Where foreign owners have found themselves in the position of having to rehabilitate a company in trouble, the results have not been impressive.

For example, Creusot-Loire, the French special steels and engineering group, first tried, in 1974, to establish a relationship with Alan Wood, a family-controlled steelmaker. Although it acquired a minority stake it was unable to develop a partnership and later sold its shares. Two years later the French company bought control of Phoenix Steel, a special steels manufacturer which had had a poor profit record. The hope was that with new management, better technology and

a substantial investment in modern steel-making facilities the company could greatly improve its market position and start making healthy profits.

It is still too early to judge the results of Creusot-Loire's investment, but the impression from this and other cases is that European investors should not be over-optimistic about the speed with which a sick American company can be restored to health. Another less-than-successful experience, at least in the early stages, was that of Plessey, which bought Alloys Unlimited in 1970 and had to put up with several years of losses before the company began to come right.

The reasoning behind Plessey's purchase could not have been faulted. To quote from the explanatory letter to shareholders in 1970, "Your company will acquire immediately a number of products and know-how which are important to our successful development in world markets and which, because of the rate of change of technology, it would be impossible to attain on our own on an acceptable time scale or at a tolerable development cost. . . . At the same time we shall achieve in the U.S. a substantial technological and manufacturing base and an opportunity for our

existing businesses to increase their penetration of the world's leading market."

It is precisely this line of argument which has led other European electrical and electronics companies, such as Philips and more recently Allis-Chalmers, to acquire stakes in the U.S. integrated circuit and micro-computer industries. Siemens, which now has control of Litronix and a minority stake in American Micro Devices, needs access to American technology if it is to maintain and improve its position in the world electronics markets. Similarly GEC has made no secret of its desire to establish a bigger presence in the U.S., probably though not necessarily in the electronics and related fields. It has hired Mr. Geoffrey Owen, formerly managing director of ICL, to act as an American-based "agent" to look for businesses which could be of interest to GEC.

Risks

Investing in the U.S., especially in advanced technology sectors, involves high risks; it is easy to make mistakes. One way of reducing the risks is to form a partnership with an American company which already has an established position in the field. This can sometimes lead to antitrust complications (for example, the joint venture between Bayer of Germany and Mobil in polystyrene chemicals had to be dissolved), but where the joint venture has only a small share of the relevant market these problems are unlikely to arise.

One interesting example of this approach was the decision by Fiat and Allis-Chalmers to pool their worldwide interests in construction machinery in a joint company controlled by Fiat. In one sense this was a move by Fiat to fill-out its line of construction equipment by including the larger machines developed by Allis-Chalmers for the U.S. market. But another objective was to secure, through the relationship with Allis-Chalmers, direct access to the world's largest market for this type of equipment. Allis-Chalmers, though very much

smaller than the leaders in the field such as Caterpillar, had an established position on which Fiat could build. In much the same way Siemens has formed a partnership with the same American company — again with a minority position — in power generating equipment. Another example is the marketing agreement announced last week between Renault and American Motors.

An extension of this approach, involving higher risks but avoiding the financial and management problems of a partnership, is to buy outright the unwanted subsidiary of a large American group. During the past few years there has been something of a "de-merging" process going on in American industry. After the 1973 oil crisis and the general realisation that growth and profitability would be more difficult to achieve in the future, a number of U.S. companies decided to divest themselves of peripheral businesses which they had acquired, for reasons of diversification, in the 1960s and early 1970s.

Many of these businesses were perfectly sound, but were considered too remote from the parent's main field of activity to justify further investment. This process has created opportunities which European acquirers have been quick to seize. Henkel of Germany has bought the chemical subsidiary of General Mills. Beecham has bought the Calgon water-treatment business from Merck and more recently an animal health business from Rohm and Haas. Thomas Tilling is planning to buy Eaton Corporation's security products business. These are some recent examples. As long as the price is right this type of purchase can offer the best of all worlds — an established business with a strong market position, a sound management already in place and none of the legal and other complications of appealing directly to shareholders. For many foreign companies it is the preferred method of entry into the U.S. market.

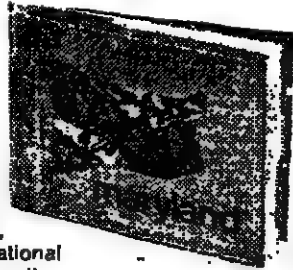
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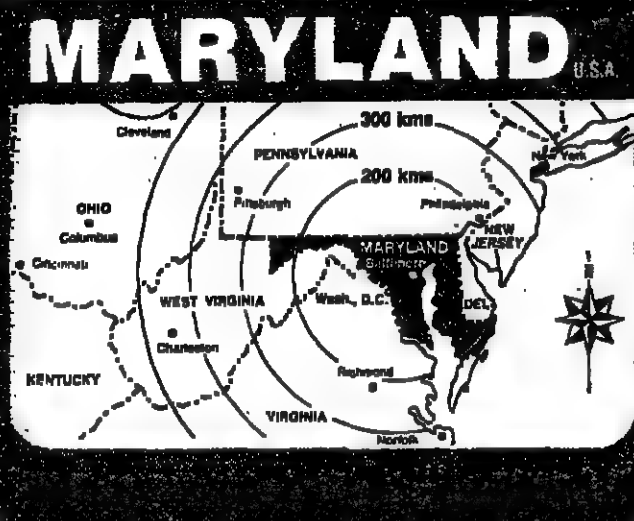
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A FINANCIAL TIMES SURVEY WORLD BANKING

PART I MAY 22, PART II MAY 30 1978

The Financial Times annual Survey on World Banking will be published in two parts—Part I on Monday May 22 and Part II on Tuesday May 30. The proposed editorial content is set out below.

Part I
INTRODUCTION The world economic and financial scene. World-wide recovery from recession remains sluggish, despite growth in the U.S.
INTERNATIONAL MONETARY ARRANGEMENTS The International Monetary Fund calls for more rapid economic expansion; the role of the Fund and central bank arrangements in providing support for countries with balance of payments problems.

OIL FUNDS Outlook for the oil price against the background of the decline in the dollar; impact of the growing import demand of the oil-producing countries.

INTERNATIONAL BANKING Further growth in international activities against the background of generally depressed home demand in the industrialised economies.

INTEREST RATES Sharp declines in many European countries, particularly Britain, reflecting in part the weakness of the dollar.
GOLD The market price has risen sharply to its highest levels for nearly three years as demand has revived.

EUROPEAN INTEGRATION The idea of monetary union has been revived by Mr. Roy Jenkins.

BANKING REGULATIONS Important steps have been taken within the European Community towards the harmonisation of banking controls; new legislation expected in the U.K.

THE CITY OF LONDON The City has held on to its position as a leading international banking centre, but there are signs of increasing competition from other centres.

FOREIGN BANKS IN LONDON The international banking community continues to find the City attractive as a centre for offshore operations.

MULTINATIONAL BANKING Considerable changes have taken place in the consortium banking business.

EXPORT FINANCE Important moves in Britain to reduce reliance on sterling and continued international concern over the issue of competition in export finance.

The remaining articles will review economic and industrial developments in the countries listed, with particular reference to the banking and financial sectors:

FRANCE
WEST GERMANY
ITALY
NETHERLANDS
BELGIUM/LUXEMBOURG
DENMARK
IRELAND
SWITZERLAND
AUSTRIA
NORWAY/SWEDEN

SPAIN
PORTUGAL
AUSTRALIA
NEW ZEALAND
CANADA
SINGAPORE
HONG KONG
FINLAND
TURKEY

Part II
THE POUND The sharp revival of confidence in sterling, coupled with the weakness of the dollar, has presented problems for the U.K. Government.

THE DOLLAR Sustained pressure on the U.S. currency against the background of the growing U.S. balance of payments deficit.

EUROMARKETS Further expansion of activity in both the medium-term credit market and Eurobond issues.

PROJECT FINANCE Development of international banking to meet the needs of large-scale project finance.

NON-OPEC DEVELOPING COUNTRIES Reliance on a recovery of commodity prices as the industrialised countries expand; balance of payments problems and concern over possible defaults on their debts.

DEVELOPMENT FINANCE The role played by private banks and the official agencies in overcoming the difficulties of the less developed countries.

NEW CENTRES Growing competition felt by the established financial centres from new markets and offshore banking centres. Economic, financial and industrial developments in the following countries:

U.S. (home)
U.S. (abroad)
JAPAN (home)
JAPAN (abroad)
COMECON
YUGOSLAVIA
ISRAEL
GREECE
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Union movement image short of lustre

ONE OF the starkest contrasts in the U.S. today is between those responsible for running large American corporations and those with the task of representing some of their employees. The economic instability which has marked the 1970s has shorn American management of much of its clout and nowadays the skills for improving managerial skills and innovative techniques occupies a great deal of time and resources.

The trade union movement, on the other hand, has never had less cause to be complacent and yet rarely has it seemed so lacking in initiative and in dominant personalities to give leadership and direction. Not it must be pointed out, that this is a common perception of most Americans. Surveys after surveys point to a widespread belief that the union movement has too powerful a leadership which has only to pull a string for the Administration and Congress to jump. Unions are widely seen as excessively monopolistic and self-interested and as a group altogether too powerful. This image is part of the paradox of American unionism.

The American Federation of Labour—Congress of Industrial Organisations is a highly professional lobbying organisation skilled in the exercise of political leverage. American laws governing working conditions and the maintenance of health standards are among the most enlightened in the world and testify to a union leadership which has had other priorities apart from the pay packet. Standards of pay and fringe benefits gave the American industrial worker a quality of life which was the envy of his counterparts around the world.

Yet rarely has trade unionism stood in such low public regard in the U.S. and rarely have trade unions found it more difficult to extend their membership lists. Twenty years ago some 35 per cent of the American labour force belonged to a trade union; to-day the unions organise a little over 20 per cent, and the proportion is declining every year.

The result is that the movement rests on a few traditional and highly important peaks—steel, motors, chemicals, coal, transport—but has made little effort to descend to the foothills to organise in the service industries, and in such newly developed sectors as electronics.

Instead of reviving long forgotten organisational skills, the movement has increasingly come to look for panaceas such as the labour law reform legislation now before Congress. This would, it is true, remove some of the impediments which truly hostile employers have been able to erect in the face of a union recruitment drive but it is unlikely to create—as some union leaders would wish to believe—a new dawn for the movement.

Campaign

The Amalgamated Clothing and Textile Workers Union, which is attempting to organise workers employed by the recalcitrant J. P. Stevens company, privately admits that the Bill would give it only a marginal aid in winning a campaign which it has christened "Operation Jericho." Although the union's attempts to remove Stevens outside directors have recently captured the headlines, its dogged attempts to convince the rank and file Stevens employees of the virtues of union membership is the example which other unions ought to follow.

Their failure to do so is highlighted by the fact that unions are winning barely half of the recognition elections which are held every year and although many employers use a variety of tactics to influence their employees' vote, their efforts cannot alone account for the unions' poor rate of success.

Lack of organising ability and determination is part of the explanation and uninspiring national leadership is another. Discussion on this point inevitably centres around the personality of Mr. George Meany, the 83-year-old who was re-elected to another two-year term as AFL-CIO president last December. Mr. Meany's dominance of the movement is unquestioned and his access to Presidents and key legislators second to none. But it is the movement's misfortune that he should have come to personify many of the attitudes which make the movement unpopular. Moreover, his style of leadership is not one which is calculated to appeal to the young American worker, male or female.

Lastly, Mr. Meany is reluctant to acknowledge that there is a membership problem and argues that the union move-

ment's influence extends far beyond its numbers and that this fact is reflected in the degree of political influence which it can bring to bear.

Despite some setbacks last year this influence is considerable and the labour law reform Bill has Administration backing—as did the eventual minimum wage legislation which raised the minimum wage by 15 per cent at the start of this year, with further increases to come.

The higher minimum wage is thought by many economists to be a positive contribution to unemployment, which already looms large in union calculations. Job security is an increasing preoccupation in collective bargaining and new contract negotiations next year in the motor, steel and other industries are expected to concentrate on the issue as never before.

Employers on the other hand are more and more concerned to control or even take back union gains on fringe benefits. The railways, the coal industry, New York City in its bargaining with public employees, these are all examples of employer attempts to focus the spotlight on raising productivity.

Job security provisions, achieved either through collective bargaining or legislative process, tend to be less extensive in the U.S. than in some parts of Europe and this, is sometimes one of the attractions of investing directly in the U.S. Many U.S. managers feel, however, that their jobs are no more secure than those of their employees and a survey by the Conference Board, the business research organisation, indicated last year that the positions of many senior corporate executives are much more open to challenge than a company Board has ever before. The role and performance of company directors has become a popular topic for study and debate, not least because of the series of scandals over improper corporate payments at home and abroad.

According to the Conference Board, company Boards are now demanding, and getting, better information about company affairs and they are challenging management on major issues and even removing top company officials when they feel that dismissal is justified. This revival of authority is being encouraged by many managements and sought by directors who

fear exposure to lawsuits, a loss of public confidence in business and growing government interference in corporate operations.

An important development has been the increasing popularity of audit committees, which are comprised of outside directors and traditionally audit a company's financial records and reports. The Conference Board found that some of these committees were breaking new ground and were also examining aspects of the company's social responsibility and "ethical conduct." Executive compensation committees have also become a popular feature of management and is not overruling itself.

It is not clear whether such developments are related to perceptible changes which have been taking place in the composition of company boards. One recent study showed that the number of bankers in corporate boardrooms was declining while former Government officials and academics were on the increase. Outside directors' annual fees last year amounted to \$10,900 but those who sat on Boards of companies with sales exceeding \$1bn. took home \$15,130.

Debate

In view of the intense debate in the U.S. over the role of outside directors, one of the study's most interesting findings was that nearly a third of \$1bn. companies had established nominating committees to screen possible candidates for the Board. This is seen as a strike at the network of personal contacts which often supplies outside directors for company Boards.

Another study, this time by the management consultants Heidrick and Struggles, found that at the end of last year that chief executives employed by the 500 largest industrial companies earned on average \$261,000 in cash and bonuses. Most owned no more than 1 per cent of their companies and a majority found their way into their jobs through personal contacts. Marketing was the background most commonly shared by these executives and although they were, aged 3.6 weeks holiday a year, longer than two weeks at a time for more than five years.

J.W.

ly the quest for new technology

IT COULD be argued that the quest for new technology is the most important influence on the recent rise of over-investment in the U.S. Yet the powerful economic forces that have turned the one-way flow of investment out of the U.S. into a two-way flow, there have been other reasons—on the part of large companies for skills in areas of technology the U.S. still leads.

Particularly striking examples are to be found in the U.S. business. Until the end of this decade, the electronics know-how of the U.S. tended to come from the overseas investment of U.S. multi-nationals. Profits from the local subsidiaries of ITT, IBM, Honeywell and many others. This was supplemented by licensing agreements, continues. But the technology of the past decade has been those by Bosch, Siemens, and Britain's General Electric to seek out and buy technology from U.S. companies that have been running in the field of electronics.

There is a paradox in this. It is widely acknowledged that the technological gap between the U.S. and the rest of the industrialised world has narrowed progressively since World War II. In nuclear power, for instance, as a result of technology in large part bought from American companies like General Electric (which brought the technology to Europe by them), a European manufacturer like Kraftwerk Union can now claim to be the most advanced in the field of uranium enrichment. The British-German ultra-centrifuge technology is a world leader.

Geoffrey Ormrod, engineering, chemical, pharmaceutical, aircraft, power, engineering, U.S. is no longer the technological leader it once was.

Investing process is one factor, that has swung the balance of economic forces in favour of more foreign investment in the U.S. American technological leadership was one of a series of advantages that gave America its remarkable standard of living in its post-war heyday. If this leadership has now dwindled, what incentive can there now be for companies in other countries to buy into American know-how?

The answer is the "hunger" referred to earlier. All the industrialised countries are having to adapt themselves to a slower rate of economic growth. It is striking, travelling around Europe, how often one hears industrialists bemoaning the apparent lack of new and sophisticated products for their highly paid workforces to manufacture. There are companies in traditional industries like tobacco which have large funds available for diversification but cannot find the products to invest them in.

Backlog

A combination of mounting unemployment, a daunting backlog of potential productivity gains, and the ease with which modern production technology can be transferred to Third World countries has left the OECD countries casting around for areas where they can assert their technological leadership—for products in which they can excel without quickly losing the initiative to Third World countries.

This scramble for an apparently stagnant supply of new ideas is not a phenomenon confined to Europe alone. Industrial scientists in the U.S. say that the emphasis in corporate research there is tending towards low-risk, short-term projects aimed at making marginal improvements to existing products.

In quantitative terms the amount spent on R and D by U.S. industry continues to climb, but it is observed that there is a growing tendency for research money to be directed towards anti-pollution research. Some of this—that part carried out by companies manufacturing anti-pollution equipment—is

"new product" research as worthy as any other.

But when one hears that General Motors now spends something like a half of its research money meeting regulatory controls, one draws the conclusion—not that this is a bad thing, for the controls may well be much needed—but merely that that much less money is being spent on new developments to titillate the consumer.

All this leaves the impression that if European companies are buying technology in the U.S. then they are buying a piece of a shrinking cake. The electronic skills of the U.S.—propelled upwards as ever by the huge research outlays of the Pentagon and (much smaller now) NASA—are the only readily identifiable field left where America holds an undisputed lead. Even here Japan is making a determined challenge, not so much by mastering the newest techniques for making integrated circuits but by overtaking the U.S. in the business of incorporating them into finished products.

There are other areas of leadership—production technology, space technology and materials technology—but not ones for which a generalised claim of American supremacy can be made.

But even if by American standards the old blend of technological and entrepreneurial flair seems to be fading, even if the over-the-counter market no longer gets excited about "technology stocks," even if the flow of venture capital in the U.S. is not what it used to be, the fact remains that America is a much more fertile breeding ground for new ideas and new products than any European country.

A recent report by Arthur D. Little on New Technology Based Firms (NTBFs) in the U.S. and West Germany lamented the low number of such firms that had been established in these two countries compared with the number in the U.S. It said: "The number of NTBFs set up since 1950 and still in existence is about 200 in the U.K. and probably fewer

in the Federal Republic. The total sales of these firms were over £200m. in each country in 1975. By contrast, there are several thousand NTBFs in the U.S. and their sales run into billions of dollars."

The Little report listed the extraordinary number of American cases in which inventions by individuals had been developed into industries employing thousands. Three technological industries—television, jet travel and digital computers—did not exist as industries in 1945 but 20 years later contributed \$13bn. to the U.S. GNP and provided almost 1m. jobs.

It pointed out that Polaroid instant photography was not developed by the U.S. photographic industry but began with a venture capitalist. The Xerox copying process was developed outside the office equipment industry after large corporations like IBM and Eastman Kodak had turned down the opportunity to exploit Xerox patents.

Attitude

The report then listed the factors that make America a fertile technological seed-bed. These include the very large domestic market; the availability of private wealth; a fiscal framework that encourages private risk capital; the over-the-counter market for the shares in small companies; a society which encourages the entrepreneur; the entrepreneurial attitude of American scientists and large Government expenditure in high technology areas.

These are the differences that provide a technological inducement to Europeans to invest in the U.S. The U.S. may no longer be the world's undisputed scientific leader but it remains well to the fore and above all able to invent, develop and market new products in a way which, if not what it was 20 years ago, still makes the country a hotbed of new ideas for any European company that chooses to invest there.

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Foreign banks now a vital factor

BY sectors of the U.S. economy have been as clearly by foreign direct investment banking. Over the past years foreign banks in the U.S. have been going through, unnoticed outside banks, a period of phenomenal expansion.

Some areas of the country, New York in particular, banks have become a factor in major segments of the banking market. It is not to hear senior banking executives in this city complain of cut-price competition, were it not that U.S. already have valuable of the business in the U.S. own domestic market. It would not be hard to see a protectionist banker, far, however, the U.S. national bankers, while some of their rivals to open branches in States while they are to one, have had their by the concept of city. Any attempt to curb bank's operations in the and there have been already—could inspire government reactions overseas operations of banks. The latter have been circumspect in their to issues raised by the banking expansion.

Mr. Henry Terrell, and Mr. Sydney Key, have charted the growth. Their figures suggest that between November 1972, when foreign banking legislation was first proposed, and November 1977 the standard banking assets of foreign banks rose from \$18.3bn. to almost \$55bn., and by January this year had reached \$58bn. Standard banking assets exclude clearing balances and balances due to directly related institutions. If these items are included total assets would be around \$80bn.

For the sake of comparison the standard banking assets of the U.S. banks which report weekly to the Federal Reserve Board were in November last \$523bn. The weekly reporting banks comprise in the main the money market banks which compete most directly with the foreign banks. Their assets account for about half the total assets of all banks in the U.S.

More startling is the share of the commercial and industrial loan market which foreign banks have gained—in particular the growth of their market share at a time when the big U.S. banks have been stagnating domestically in terms of commercial and industrial loans.

Thus in November last foreign banks had \$22.5bn. of C and I loans compared with \$121.7bn. for the weekly reporting banks. Overall, and more significant, the foreign banks' operations are concentrated in New York, Illinois and California. Thus in New York, where two-thirds of foreign bank assets are situated, the foreign banks have around 37 per cent of the commercial and industrial loans of the weekly reporting banks; in California the figure is 31 per cent.

Furthermore, as Mr. Terrell and Mr. Key point out, while the weekly reporting U.S. banks reported a decline in commercial and industrial loans between November 1974 and

November 1977 of \$13.7bn. to \$115.7bn., the foreign banks increased their C and I loan volume by \$2.9bn. to \$20.7bn.

Competition

The most likely—and commonly held—explanation of this trend is that foreign banks were ready to cut the price of their loans in order to increase volume and were able to fund themselves because money market interest rates were well below prime rates in the latter part of this period. Thus foreign competition, and not just money market competition, would appear to have been a significant factor in the breakdown of the prime rate lending structure in the past two years or so.

Observers suggest that increasingly the foreign banks are invading the territory of their U.S. competitors, making inroads into the U.S. banks' customer base. They are apparently using their growing base of lending to other foreign corporations in the U.S. as a springboard for lending to U.S. corporations in the top Fortune 500 list. They are also relying less on money markets or their foreign parents for funds and drawing deposits from retail or certificate of deposit markets, as do their U.S. competitors.

Some of the major foreign invaders, like Barclays Bank in New York, Lloyds Bank of California, the six foreign owners who control European American Bank and Trust, and the Bank of Tokyo with its California First Bank subsidiary, have broken into the retail banking market, acquiring U.S. branches. But others, most noticeably the Japanese banks, have upgraded agency operations to branches in order to be able to issue Certificates of Deposit in the U.S. to fund themselves.

The rapid growth of foreign banks over the past five years

FINANCE IN THE U.S. VIII

Coping with antitrust legislation

ANY FOREIGN company contemplating an acquisition in the U.S. needs to be well equipped with legal advice. If the takeover victim decides to resist, there are numerous legal manoeuvres available which at least will prolong the negotiations and in some cases will frustrate the deal altogether. At some times appears that the instinctive response of a U.S. board of directors, when faced with a tender offer for the company's shares, is to appeal to the courts and claim some infringement of Federal or State laws; such devices gain time in which a stronger defence can be prepared and perhaps better terms negotiated.

At the same time the would-be acquirer has to be prepared for the not wholly predictable intervention of the U.S. antitrust authorities, in the form either of the Justice Department or the Federal Trade Commission (FTC). While the objective of the antitrust laws is straightforward enough, to preserve and promote competition, their interpretation by the courts and by the enforcement agencies leaves plenty of room for doubt as to whether a particular transaction may or may not run into trouble.

These legal obstacles are, of course, just as onerous for a domestic acquirer as for a foreign acquirer; there is no evidence that U.S. courts or the antitrust agencies discriminate against foreign companies — except to the extent that outsiders are less familiar with the American legal jungle. Most European acquirers

are well aware of the risks and are prepared to meet them. A classic case was the bid by Imetal, the French non-ferrous metals group, for Copperweld in 1975. The management of the American company resisted the bid fiercely. Apart from enlisting the support of their employees and the local community, they made use of every legal device available to defeat the offer; some States have laws which provide for a lengthy review period before a tender offer can take effect.

Yet the most significant aspects of this battle were, first, that Imetal, convinced that its offer was fair and determined to press on with it, was able to deal with the legal challenges thrown at it, and, secondly, that the courts showed no disposition to favour the defending management at the expense of shareholders. Temporary injunctions were granted but, as one judge remarked, "In the absence of a compelling reason, we do not believe that one's right to deal with his property in the marketplace should be abridged."

Imetal was eventually able to make peace with Copperweld's management and employees; the offer was successful. Sometimes a company's hostile stance can change much more rapidly.

When Babcock and Wilcox bid for American Chain and Cable, also in 1975, the first offer was scornfully rejected, not only as unfair to shareholders, but as contrary to the securities and antitrust laws; an injunction was sought seeking to prohibit Babcock from proceeding with the offer. Within a few weeks,

however, after Babcock had increased the offer price slightly, the merger was agreed.

Competitive

A potentially more serious problem is antitrust. Recent cases have shown that when a large foreign company proposes to take over, or acquire an interest in, a large American company in the same or a related line of business—even if the foreign company has no operations of its own within the U.S.—the deal may be challenged.

In some cases the antitrust authorities may order the acquiring company to dispose of part of the acquired company, so as to preserve competitive conditions, or the possibility of competitive conditions, in a particular sector. Thus ICI, which acquired Atlas Chemical Industries in 1971, agreed to an FTC order requiring the divestiture of Atlas explosives business and promised not to take over any explosives company in the U.S. for ten years. In 1989 the merger between British Petroleum and Standard Oil of Ohio (Sohio) was approved by the Justice Department on condition that the two companies hived off some of their retailing and distribution activities.

A particular source of anxiety is the doctrine of potential competition. According to this theory, there may be large and powerful companies which do not at present compete in a particular sector, but have the resources and skills to do so. If they decide to enter the

industry by buying one of the leading companies in it, this may have serious anti-competitive effects; it will tend to raise entry barriers for other potential entrants and it may reinforce the already oligopolistic structure of that industry.

Such an acquisition by an "actual potential entrant," according to the theory, must be prevented; if the large and powerful outsider wishes to enter the industry, it must do so either by building its own operation *de novo* or by acquiring a toe-hold in the form of one of the very small companies; in this way it will increase competition in the industry, not reduce it. The clearest example of this doctrine as applied to U.S. companies was the case brought by the FTC against Procter and Gamble's takeover of Clorox, the leading company in the household liquid bleach market; the FTC view in this case was upheld by the Supreme Court in 1967.

The doctrine has particular relevance for a foreign company, especially one with little or no experience of U.S. operations. While it will sometimes make sense for a company to start its own manufacturing operations from scratch (as, for example, Michelin and Volk-

wagen have done), there are many cases where the commercially sensible approach is to buy a substantial presence in the market by acquiring one of the leading companies in the field.

That was the argument used by BOC International, the British industrial gases company, when the FTC challenged its acquisition of a 35 per cent stake in Airco, one of the leading U.S. companies in this market. The British company argued that it made no sense to start an operation *de novo*; it would cost at least \$240m, the company said, and take ten years before it became viable. As for toe-hold acquisitions, none of the small companies in the industry provided an adequate base on which to build.

Much to the relief of BOC—and of other foreign companies—the FTC case was dismissed by the Appeal Court last year. Since the FTC decided not to appeal to the Supreme Court, the Appeal Court ruling stands as the latest exposition of the potential competition doctrine. Pointing out that the issue lay "at the frontiers of the antitrust laws," the judge argued, first, that BOC was not in any sense a "perceived" or "recognized" potential entrant, whose

presence "in the wings" exercised a pre-competitive effect on the market. Secondly, the FTC had provided no evidence that BOC, if forced to divest itself of its stake in Airco, would in the reasonably near future enter the market in the same other, pre-competitive way.

While the FTC did not have to prove that entry by BOC was "imminent," it had to show "some reasonable temporal estimate related to the near future." No such evidence was provided; the judge concluded that "remote possibilities" could not be the basis for deciding that a particular acquisition infringed the antitrust laws.

Victory

Whether BOC's victory will impinge on other cases affecting foreign companies remains to be seen. One outstanding case involves the acquisition by Nestle, the Swiss-based foodstuffs group, of Stouffer, a frozen foods company. The FTC argued that the merger would eliminate Nestle as an actual or potential competitor in certain markets; that Stouffer's dominant position in its field would be strengthened and that barriers to entry would be raised still further.

Another unresolved case concerns SKF, the Swedish ball-bearing company, where the FTC is seeking the divestiture of several U.S. companies acquired by SKF. These cases differ from that involving BOC in that both SKF and Nestle have been established in the U.S. as manufacturers for many years.

The reaction of the authorities will normally be influenced by the share of the market which the acquired concern holds. If it is less than 10 per cent, there is unlikely to be a problem. If it is between 10 and 20 per cent, the deal will be closely scrutinised. Anything above 20 per cent is in the danger zone.

It is no doubt for this reason that several European companies, anxious to expand their stake in the U.S., have deliberately sought acquisitions outside their main lines of business. Three recent examples are Nestle's bid for Alcon Laboratories (pharmaceuticals), Thyssen's for Budd (vehicle components) and Unilever's for National Starch (starch, adhesives and resins).

The acquirers are all large companies whose takeover activities in the U.S. are bound to be of interest to the antitrust agencies. But by bidding for

companies in sectors they do not at present occupy, they hope to avoid complications.

In cases where companies are directly affected, the agencies may seek to impose conditions which are able to be met by the foreign company. This was apparently the case last year when Bic U.S., affiliate of the company, sought to acquire American Safety Razor. Bic might have expected to have welcomed a new entrant into a market dominated by Gillette, but it seems agency wished to impose restrictions on the new entrant. Bic found too the French company prepared to fight the matter in the courts as BOC national had done.

Antitrust can be an obstacle for the foreign party; at the very least it is a delay. These problems have exerted much of a hindrance on the general effect of the antitrust agencies, aware, is to increase activity in the U.S. market reduce it.

Geoffrey

The industrial impact



Volkswagen's new plant in Pennsylvania to produce its Rabbit car is the first by a foreign motor manufacturer to be set up in the U.S. and its impact on the domestic industry will be followed with interest.

Impact of direct foreign investment on the motor industry still be in its formative stages, the consumer electronics industry—and particularly the television sector—has long been the focus of attention.

Here the investment has been predominantly through Philips and Magnavox, one of the U.S. consumer electronics companies. Japanese manufacturers now have a 25 per cent share, and it is still growing.

In 1974 imports of Japanese cars into the U.S. were a relatively modest 11 of the market, but this had already risen to 100,000 in 1980. The U.S. market scope for raising prices. General Electric, Sony, Admiral were all established offshore manufacturing facilities in Mexico and the Far East to cut labour costs.

At the same time, companies decided to invest in the U.S. and to purchase assets of Motorola and Electronics in 1974. Sony had already established a plant in California in 1971, so these three Japanese companies placed to shelter from the agreement which the Administration was seeking because of the efforts of the U.S. home industry.

By 1976 the Japanese were taking nearly 40 per cent of the U.S. colour TV market. They agreed last year their exports to the U.S. to 1.75m units a year. This is considerably more than the 2.9m sold in 1975. It remains to be seen if real protection the efforts given the presence in the U.S.

The latter will be strengthened this year. Joint manufacturing agreements between General Electric, Hitachi and direct joint assembly facilities in Japan and Toshiba. Japanese companies will in their U.S. production their competitive edge only partially blunted.

pharmaceuticals to fuel injection. Many are expanding or augmenting an existing investment and the fate of some initiatives is being closely watched by rivals.

Thus the future shape of the U.S. motor industry, for example, could be said to hang on the success of Volkswagen's (VW) new assembly plant in New Stanton, Pennsylvania. This \$300m facility will be the first car production plant to be set up by a major foreign rival to the domestic industry and the probability is that it will be followed by Japanese and possibly other European manufacturers. Financed by Eurobond issues and loans from two Pennsylvania pension funds, VW's plant opens next week and will have the capacity next year to build upwards of 200,000 of the German company's best-selling "Rabbit" small car.

Squeezed

In sheer number of units produced, this could put VW's American plant ahead of the smallest U.S. car manufacturer, American Motors, whose market share has fallen from 3 per cent to about 2 per cent over the past four years, partly because of sharp competition from the Rabbit and other imported small cars. VW sold nearly 165,000 Rabbits in the U.S. last year, but its margins were severely squeezed by the dollar's depreciation against the Deutschmark.

Fear of future currency alignments was probably the greatest single factor prompting VW's decision to invest directly in the U.S., and with the yen hovering at around 22.5 to the dollar, the major Japanese car producers are under similar pressure. Their experience of manufacturing offshore is somewhat more limited than VW's, but it may only be a matter of time before sales demand and currency appreciation force them to take a similar route. Honda's decision to build a small motorcycle assembly plant in Ohio this year may have considerable long-term significance.

The construction of more foreign-owned car plants in the world's largest single vehicle market will give further impetus to direct investment by the motor industry's sup-

pliers of manufactured components. The predicted expansion in demand for diesel engines has prompted Britain's Lucas Industries to set up a small assembly plant for diesel fuel injection equipment in South Carolina—which is also the home of a fuel injection assembly plant belonging to West Germany's Robert Bosch Corporation. Bosch offers a good example of a world market leader deciding that its major product could have no real future in the U.S. without direct investment.

Bosch's strategy, which may be the path eventually followed by Lucas, was based on opening a relatively modest assembly plant in South Carolina which originally put together parts manufactured in Germany. However, the number of domestically produced parts has been steadily increased as the company grew to know its market and trained a labour force to meet its requirements. By the end of last year the Charleston factory had been doubled in size and close to 70 per cent of its fuel injection equipment will soon be domestically produced. Meanwhile, Bosch has benefited from greater proximity to its U.S. customers, which include General Motors, Ford and John Deere, and is expecting U.S. sales to reach \$250m in 1980.

Another vehicle-related area which could well feel the impact of direct foreign investment over the next few years is the tyre industry. An intruder, in the shape of France's Michelin group, is expected to have spent around \$1bn by the middle 1980s building eight to ten manufacturing plants in the U.S.

Michelin's first plant began producing passenger car tyres at Greenville, South Carolina, in 1975 and although the company says very little in public about its plans the scale of projected investment indicates a very serious assault on the U.S. tyre market. Renowned for its powers of technological innovation, Michelin supplied radial tyres which accounted for about 9 per cent of the Ford Motor Company's requirement last year. Rival American manufacturers cheerfully acknowledge that Michelin may snatch 10 per cent of the U.S. market "in a period of time" and predict that this will be at the expense of smaller U.S. producers.

Meanwhile, although the

impact of direct foreign investment on the motor industry still be in its formative stages, the consumer electronics industry—and particularly the television sector—has long been the focus of attention. Here the investment has been predominantly through Philips and Magnavox, one of the U.S. consumer electronics companies. Japanese manufacturers now have a 25 per cent share, and it is still growing.

In 1974 imports of Japanese cars into the U.S. were a relatively modest 11 of the market, but this had already risen to 100,000 in 1980. The U.S. market scope for raising prices. General Electric, Sony, Admiral were all established offshore manufacturing facilities in Mexico and the Far East to cut labour costs.

At the same time, companies decided to invest in the U.S. and to purchase assets of Motorola and Electronics in 1974. Sony had already established a plant in California in 1971, so these three Japanese companies placed to shelter from the agreement which the Administration was seeking because of the efforts of the U.S. home industry.

By 1976 the Japanese were taking nearly 40 per cent of the U.S. colour TV market. They agreed last year their exports to the U.S. to 1.75m units a year. This is considerably more than the 2.9m sold in 1975. It remains to be seen if real protection the efforts given the presence in the U.S.

The latter will be strengthened this year. Joint manufacturing agreements between General Electric, Hitachi and direct joint assembly facilities in Japan and Toshiba. Japanese companies will in their U.S. production their competitive edge only partially blunted.

Meanwhile, although the

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FINANCE IN THE U.S. IX

The economic attraction

BASIC ECONOMIC changes in the relationship between the U.S. and other advanced industrial nations have been an important factor behind the surge of direct investment into the U.S. this decade. But they have not necessarily been decisive in determining whether a particular company has sought a U.S. operating base. Decisions to invest have reflected equally the strengths and weaknesses of the individual companies—their financial, technological, and marketing positions as well as the ambitions and views of the people who have been managing them.

Attitudes

The latter are important because there is little doubt that at least in the case of European investors who have played such a significant role in the management attitudes towards political and economic developments in their home countries relative to attitudes in the U.S. have been important factors in investment decisions.

A common view is that much of the foreign direct investment into the U.S. in the past five years can be explained by relative changes in wage and exchange rates. It is argued that the U.S. has gone from being a high cost economy in the early 1960s, in terms of both wages and dollar values of assets, to being a relatively cheaper place in which to operate.

While this is generally true, here are exceptions which suggest that these factors are not the only key elements by any means, and that the explanation of the recent trend in direct investment into the U.S. is much more complex than his suggests.

Moreover, sharp upward movements in wages over the past ten years in the U.S. have not been accompanied by compensating gains in productivity. With the result that unit costs have been rising and whatever relative attractions the U.S. developed may be in the process of being eroded. Although given the sharp decline of the dollar, not limited so far as decisions about whether to export to or manufacture in the U.S. are being made.

The over-valuation of the dollar in the 1960s, relative to the currencies of the major industrial nations, was a growing incentive for countries like Germany and Japan to base their penetration of U.S. markets on expanding exports.

The overvaluation of the dollar in this period did, however, prepare the ground for the surge in direct investment in this decade. It enabled many corporations outside the U.S. to build up export trade and market experience which was later to become a platform for direct investment and the outflow of dollars from the U.S. at a time when foreign governments were committed to maintaining fixed exchange rates.

Fixed exchange rates helped provide the monetary stimulus to their economies which contributed to their in some cases inflationary growth. This growth, however, fostered the expansion of many businesses in industrial Europe and Japan (in some cases through mergers) to a size which enabled them to be able to feel ready to break into the U.S. market.

Since the beginning of the 1970s, with the breakdown in 1971 of the Bretton Woods system, the at first steady and more recently accelerating decline in the value of the dollar against other major currencies of advanced industrial nations has tended to shift the balance of advantage more in favour of direct investment in the U.S. for foreign corporations seeking to do business.

The intermittent weakness of the U.S. stock market has also helped to make acquisitions in the U.S. more attractive.

These general trends in the relationships between the U.S. and the economies of other industrialised nations have been important factors in investment decisions by foreign corporations. But they have not been the only ones.

appreciation against the dollar since the beginning of the decade—on the contrary. But this has not stopped U.K. companies investing heavily in the U.S. Indeed, between 1974 and 1976, U.K. companies were the most active foreign direct investors in mergers and acquisitions, and were again among the most active last year. The U.K. experience suggests factors other than broad international economic trends are important in explaining the scale of direct investment into the U.S.

These factors, while not independent of broad economic trends, were likely to relate to the particular positions of individual corporations.

It is probably no accident that the latest surge in direct investment into the U.S. began in early 1975—a period of increasingly rapid and in some areas speculative investment by U.S. businesses around the world. Then it would seem many corporations outside the U.S. which had grown to a size close to some of their main U.S. competitors, began to feel that the time was ripe and their resources adequate to enable them to expand and diversify into the largest and apparently most stable capitalist economy.

When such companies have looked at the U.S. market, however, they will have seen that whatever the broad international trends, their own decisions on where to locate in the U.S. or on whether to expand by acquisition or joint venture or to go it alone with a new plant will have presented very complex decisions.

Foray

For companies making their first foray into the U.S. in particular, an acquisition has often been the most attractive, and in the past few years, the most popular route. It offers the investor the advantage of being able to evaluate opportunities through assessing a going concern as well as providing ready made management.

On the other hand, in spite of depressed stock markets acquisitions have not necessarily offered a cheap way into the U.S., especially over the past two years. Unilever's offer price for National Starch and Chem-

ical of \$485m. for all the equity represented a premium of 64 per cent. over the closing price before the move was announced. It also represented an all time high for National Starch shares and a multiple of 17 times earnings.

Bayer of Germany paid 16 times earnings to acquire Miles Laboratories when it offered \$47 a share for the company compared with a pre-bid price of \$25 a share. Nestle paid 24 times earnings for another pharmaceutical company with its \$42 a share offer—the pre-bid price was around \$20 a share. And Cadbury Schweppes has offered 17.6 times earnings for a confectionery manufacturer, Peter Paul, in a \$58m. bid.

One explanation for the high premiums being paid in acquisitions, partly on the grounds that there is a merger boom under way amongst U.S. companies. Business management, faced with the alternatives of building new plant or developing new operations, has been opting instead for acquisitions, partly on the grounds that it is cheaper to buy than to build. Thus, while share prices are depressed, the takeover market is not.

Many factors have contributed to the surge in foreign direct investment in the U.S. above historic levels, and there are many predictions that growth will continue in part because almost half of the foreign expansion in the country is financed from the retained earnings of the businesses already here.

On the other hand, if the U.S. were to go into a sharp and inflationary recession as some fear, and if this was accompanied by slow growth in the economies of the companies which have been leading the charge into the U.S., then it would be only reasonable to expect that as in 1975, the pace would slow again, since foreign direct investment, like domestic capital spending, is cyclical. On the other hand, the giant multinational businesses outside the U.S. are now much more able to break into U.S. markets and compete directly with rivals who, if not challenged, will perhaps begin to threaten them on their own markets.

S.F.

Most desirable target for the Japanese

WITHIN THE last decade Japan's outstanding direct investment in the U.S. has soared from a few hundred million dollars to well over \$4bn., and it seems safe to predict a fairly rapid increase in the future.

Japanese-operated factories in the U.S. are already turning out products ranging from soy sauce to television sets, and a recent survey by Japan's Ministry of International Trade and Industry found that the U.S. ranked first among potential areas of future investment being eyed by Japanese corporations.

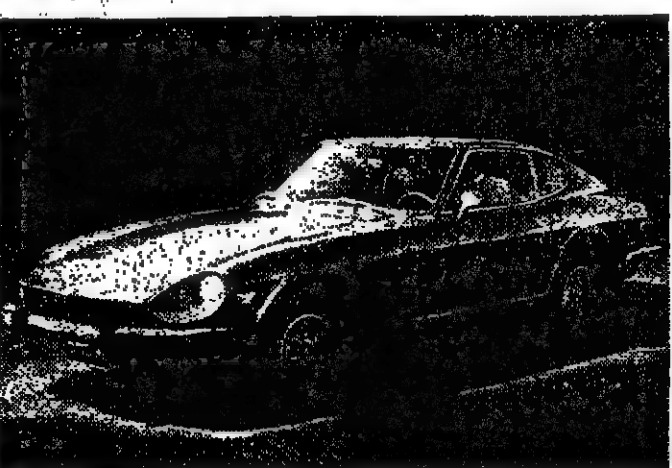
Japan's overseas investment strategy is to a considerable extent defensive in character. Of the \$19.4bn. in direct overseas investment outstanding as of March 31, close to 60 per cent. was in developing countries, where the primary aim has been—and continues to be—to ensure stable supplies of vital raw material (although, of course, another aim has often been to set up manufacturing facilities to take advantage of cheap labour).

In the advanced industrialised nations, notably the U.S., investment has gone heavily into commercial and services facilities, with the primary aim not of obtaining a great return on capital but of securing and expanding markets for exports of finished goods.

As the recent hue and cry over Japan's enormous trade surpluses with the U.S. and Europe have clearly shown, this strategy is outliving its effectiveness. In future, as far as the advanced countries are concerned, Japanese defensiveness is likely to take the form of more and more investment in manufacturing facilities, designed to head off protectionism by creating jobs rather than destroying them through exports.

Much of this investment can be expected to be made in the U.S. Production costs are no longer an obstacle in most cases, following the surge in Japanese labour costs during the past ten years, and the huge appreciation of the yen to the present level of around 20 per dollar from 360 in 1971. Furthermore, the U.S. offers political stability, a huge and growing market and a plentiful supply of land sites and raw materials.

Europe can sometimes offer company was floundering when



The highly successful Datsun/Nissan 240Z sports car.

similar advantages, and will Matsushita first took it over—surely also see a rise in Quasar now expects to show a Japanese investment. But some Japanese businessmen make little secret of the fact that they feel their investment presence in manufacturing is "not really wanted" in some European countries, that European business attitudes are too conservative, and labour relations too difficult.

That feeling could have been strengthened by Hitachi Ltd.'s decision late last year to abandon plans to manufacture TV sets in Britain after it had failed to persuade trade unions the venture would not destroy more jobs than it would create.

Ventures

Japanese companies which have led the way with manufacturing ventures in the U.S. include Sony Corporation, with its colour television plant in San Diego, and Matsushita Electric, which bought the Quasar colour television division of Motorola about four years ago.

Sony had to overcome some major obstacles, including union trouble, on the way to making San Diego plant a successful operation. For Matsushita, Quasar workforce was very attractive, since it was organised—rather than labour often is in Japan—into a company-based union, not linked with industry-wide union activity. (Non-union shops are clearly something which Japanese companies—fearful of the clout of the big U.S. unions—are keen to find when investing in the U.S.) After a difficult start—the company was floundering when

corporate ladder. One obstacle here is the Japanese system of seniority based on age, which clearly does not export well to the U.S. But even more important, the language problem and the inability to communicate easily with the bosses back in the Japanese head office often limit career opportunities for foreigners with Japanese companies.

Some Japanese firms say they would like to instal local nationals as presidents and top executives to run their overseas operations, but have difficulty finding the right men. The problem could become pressing in the U.S. in view of the tough legal measures which can be invoked against discrimination in employment.

Japanese vehicle manufacturers look sure to be prominent among the Japanese groups which in future will be testing the exportability of their management methods—and not just of their products.

Giants

Late last year Honda Motor announced its decision to build a motor-cycle plant in Ohio, which is expected to be completed by early next year; the company is also considering expanding the plant later for car production. Behind it are the two Japanese vehicle giants—Toyota and Nissan—which are generally expected to take the plunge into U.S. manufacturing in the not-too-distant future.

According to preliminary estimates by the Finance Ministry, Japan's overall direct investment overseas in fiscal 1977 which ended on March 31 fell to between \$2.5bn. and \$3bn. from \$3.46bn. in fiscal 1976, and from the record \$3.49bn. in fiscal 1973 (after which there was a plunge because of the impact of the oil crisis).

Last year's fall, Ministry officials say, reflected reluctance by Japanese companies to invest in either resource-related or manufacturing projects at a time when many of them are suffering from excess capacity and world economic conditions are so uncertain.

An improvement in the economic environment in Japan and in the rest of the world looks sure to bring with it a strong upsurge in Japanese overseas investment—with the U.S. a major recipient country.

By a Correspondent

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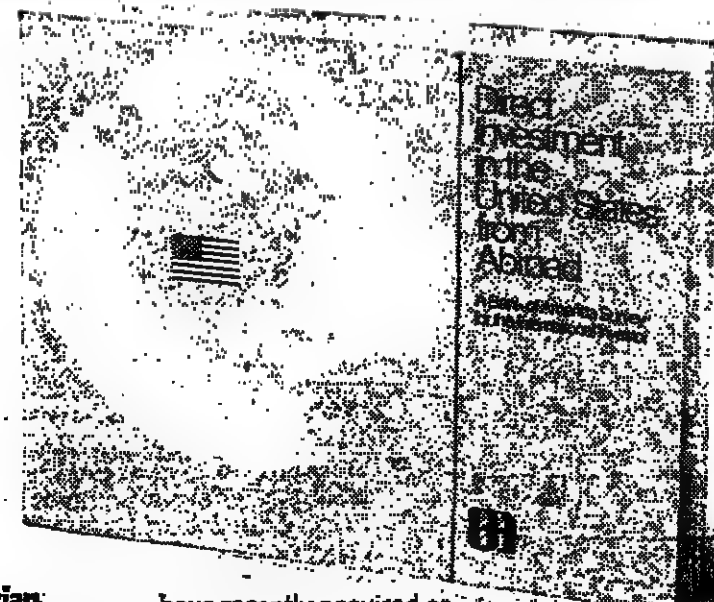
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FINANCE IN THE U.S. X

On these two pages are profiles of a selection of leading companies from Europe and Japan which have established a significant business presence in the U.S.

Matsushita

THE PILGRIMAGE to "MECA" has been long and profitable for Japan's largest electrical appliance and electronics manufacturer. MECA—the Matsushita Electronic Corporation of America—is the New Jersey-based holding company of Matsushita's growing American sales and manufacturing base.

The Japanese company's presence in the U.S. dates back to 1933 when it opened a branch office in New York, but MECA was created to market the company's Panasonic brand products in 1959. It became the Japanese giant's first overseas subsidiary. By 1977 Matsushita had set up 30 manufacturing companies and 34 sales companies abroad.

In the process the group managed to boost sales in the American market to over \$1bn. last year. About 40 per cent. of the total is ascribed to sales from U.S. production facilities and the other 60 per cent. to exports from Japanese factories which are still channelled through MECA to the U.S. market. MECA, moreover, has grown to be the largest Japanese employer in the U.S. with a payroll of about 5,000 compared with only 2,000 five years ago.

The cornerstones of MECA's growth have been its mushrooming sales of Panasonic, National, and Technics consumer goods. But the surge in the mid-1970s is a direct result of the Osaka-based company's overseas strategy mapped out in 1971-72.



Mr. Akira Harada, president of MECA.

to bolster U.S. sales by producing colour television sets at an American factory. Convinced that the American market was already overcrowded with new TV technology with the likes of Zenith and RCA, Matsushita took on a new president for MECA, Mr. Akira Harada, and gave him the task of buying into a production facility. Negotiations led to an agreement in 1974 whereby Matsushita bought the loss-making Quasar television division of Motorola (lock, stock and barrel (at a still-undisclosed price)).

Quasar Electronics Company was created as a subsidiary of MECA itself in 1974, and Mr. Harada faced two tasks: first, to rationalise the old Quasar division, which was overstaffed and not using the latest automated technology (in particular for welding TV circuitry), and second, to bolster MECA's

distribution network in the U.S. to sell Quasar products.

The arduous part of MECA's Quasar venture proved to be the streamlining of the old operation, which involved some union trouble, and although the parent company hoped that the Quasar division could be turning in a profit by fiscal 1978 the switch to the black took longer. According to officials in Osaka, the Quasar subsidiary registered a small but timely profit on its 1977 operations, and MECA anticipates a much greater return in 1978 as the Quasar brand (it is hoped) takes the place of some Panasonic direct exports from Japan which are subject to the orderly marketing agreement with the U.S. of last summer.

Matsushita television sets, made either in the U.S. or Japan, last year were the third largest in U.S. sales behind Zenith and RCA, and the company hopes to maintain that position despite export controls. But the company is also busy starting up sales of its VHS-type video tape recorders (VTRs) in the U.S. where it faces strong competition from Sony with its Betamax-type VTRs.

MECA's answer is a series of licensing and OEM (original equipment manufacturing) agreements with leading U.S. companies including RCA, Magnavox and Sylvania. Matsushita hopes to cover the market quickly enough with its own VTR system by recruiting U.S. allies just as Sony has done in its tie-up VTR agreement with Zenith. Similar jostling is going on in Europe, and Matsushita is counting on its supplies to U.S. companies (for sale under U.S. brands) to bolster demand for MECA's own Panasonic label in a growing world market.

It is a so-far untested marketing strategy, but one which, like the Quasar acquisition, will probably prove correct—and without having to wait three years to turn in a profit. MECA is pursuing a different strategy for sales of its facsimile communications equipment which will go on sale for the first time in 1978 exclusively under the Panafax label.

Douglas Ramsey

ANY DAY now the most symbolic piece of direct West German investment in the U.S. will begin production. Volkswagen will officially open its car manufacturing plant in East Huntingdon, Pennsylvania. By September 1978 the \$250m. facility will be turning out 400 VW Golfs (known locally as the Rabbit) per day and production thereafter will be doubled to take the plant up to its planned rate of 200,000 cars a year.

The development is symbolic because at the turn of this decade VW was exporting half-a-million cars a year to the U.S. and its "Beetle" was the epitome of the cheap European product in the high-wage U.S. market. The era of floating exchange rates and the inexorable rise of the Deutschmark put paid to that situation. Today VW has to manufacture in the U.S. if it is to remain price competitive.

VW is going to continue to make 40 per cent. (by value) of its Rabbits in West Germany—the major mechanical components like engine, transmission and steering. The body will be built almost entirely out of American-made parts and the company has bought a metal stamping plant in Carolina to help with the supply of sheet metal components.

Volkswagen



Mr. Toni Schnäpper, chairman Volkswagen.

Apart from the economies of VW in Wolfsburg see manufacturing—where it is the other attractions in local manufacturing and longer work-hours of the American rising danger of protectionism, worker, rather than his hourly. It will benefit from the flexi-wage, that tip the scales in bility that comes from being favour of the U.S.—the manage- close to the market. VW execu-

tives explain that it took three months for the cars from Germany into to react to changes in conditions there.

Volkswagen sold Rabbits in the U.S. in 1976 hopes to sell at least this number again this year. Additionally sold 100,000 models, production of the U.S. is not at envisaged. The company to sell the entire output U.S. plant within the 51 the time production has 200,000 units per year.

VW was vigorously w State authorities. It b plant with the help of a \$40m. loan bearing late the first 20 years of just cent. This was only a series of financial aid with which VW decision direction.

The recent fall of the has underlined the sun of VW's decision to build U.S. It remains to whether even U.S.-breg will be able to surr strong Japanese and competition that ha developed in the A small car business.

Nicholas Cole

Hanson



Sir James Hanson, chairman, Hanson Trust.

gone badly wrong, and had lute winner. It was financed by required refinancing from instalments, and it generated London at the official rate, the cost could have been devastating. But there have been no such disaster. One reason for the group's success is that its initial purchase proved to be an abso-

concentrated on buying at a discount, especially early stages of its U.S. ment. This has obvious tons about the nature businesses it has been pick up—Hanson has ised in volatile indus a low point in their cycle—but it has me its gearing ratios in have been much low would have been the it bought so-called "businesses."

Finally Hanson has support of a strong sheet in the U.K. One at moment came in the of 1975 when it raise through a rights list proceeds could not ferred to the U.S. be exchange control reg but the issue bought debt equity ratio in which persuaded U.S. that the group was further support.

The group's ambit not yet stated. It is ticularly anxious to publicly quoted subal the other side of the although its attempt Bird shows that it is to contemplate such a necessary. Meanwhile remains Hanson's "p vestment area."

Richard L

St. Gobain

SAINT-GOBAIN-Pont-a-Mousson company, with 1977 sales of ranks as France's largest private Frs.31.8bn. Half these sales were made abroad, as were no less than 96 per cent. of net profits of just under Frs.600m. Its main vehicle in the U.S. is the Valley Forge-based Certain-Teed Corporation in which it holds a majority stake and which makes fibreglass products, building materials and piping. The U.S. accounted for 12 per cent. of consolidated sales and 17 per cent. of net profits.

Saint-Gobain's involvement in the U.S. is a long one, going back to the late 18th century when it was already an exporter of glass. Its first investments in the U.S. came after World War II when it bought a string of small glass manufacturers.

It was not until the early 1960s that Saint-Gobain decided to make a serious attempt to expand in the U.S. market. To consolidate its strength it merged its various glass concerns and set up a brand-new flat glass plant based on the improved mechanical polishing technology it had developed in France.

It was a case of instantaneous obsolescence. Pilkington's float process came on to the market, not only destroying the validity of the American investment but necessitating an enormous effort of reconversion in the French company's European plant. At the same time the violence of the reaction by American companies to its encroachment in the U.S. market surprised Saint-Gobain.

So much for Saint-Gobain's first adventures. Meanwhile it-a-Mousson, at this time an independent cast-iron pipe manufacturer, had carried on a desultory trade with the U.S. dependent largely on monetary factors. Its main investment was immediately after World War II when it bought a foundry in Virginia.

By the mid-1960s both Saint-Gobain and Pont-a-Mousson recognised the need to tackle the U.S. market but neither had the resources to do so.

What made the situation worse was that Saint-Gobain was running scared in world markets before the big American multinational glass manufac-

tured. Although the French company had licensed its fibre-glass technology to Owens Corning of the U.S. it was the American company which held the sales initiative. Conversely, Saint-Gobain itself was the licensee of Owens' fibreglass reinforcing materials technology. The French company decided that it must seek expanded outlets for fibreglass insulation products.

The scene changes now to the U.S., where the Certain-Teed Corporation, with solid growth in the roofing materials sector, was looking for new strings to its bow. It had made an international debut when it linked up with Turner and Newall, the British company making over its asbestos pipe interests in the U.S. to the U.S. company in return for an 11 to 12 per cent. stake in Certain-Teed's capital. Certain-Teed was already a very big distributor of fibreglass insulating materials, and it tried to develop its own interests in this field by buying up small U.S. manufacturers.

It was a disaster. The technology was inadequate and Owens, the main Certain-Teed supplier of these materials, took umbrage. Thus in 1967 Saint-Gobain was looking for an American partner in the insulated fibre-glass products area. Certain-Teed was looking for technology in the same field. They came together in a 50-50 joint venture in which the American company provided most of the physical assets and Saint-Gobain the technology and patents.

But then events in France took a hand as the other French glass giant, BSN, launched a violently contested takeover bid for Saint-Gobain. The latter's energies and resources were committed to this battle, and it was left to Certain-Teed to supply the new capital needed for the joint venture, so much so that the American stake moved up to 80 per cent.

As the BSN bid failed Saint-Gobain and Pont-a-Mousson came together in a merger and sat down to work out an American strategy. They decided that:

(a) The already running-down flat glass business should be put to sleep as peacefully as possible;

(b) The foundry interests were too small to serve as a basis for expansion;

(c) Certain-Teed was the best prospect as the primary vehicle of the intended U.S. expansion. Negotiations with Certain-Teed led to the American company absorbing the joint venture in return for which Saint-Gobain got an 11 to 12 per cent. direct stake in the Certain-Teed capital. At the same time the giant INA insurance concern, which had bought from Saint-Gobain shares in the French Suez group at the time of the bid battle with BSN, also came into the Certain-Teed capital at Saint-Gobain's suggestion (to act as gendarme).

In 1973 the French company lifted its stake to 32 per cent. via a tender offer on the New York Stock Exchange. The following year Certain-Teed

nearly went bankrupt had to write off \$3 property investment, all managed at report only final net loss. This is the dismissal of the man and the appointment of Meads, of the INA Corp as the new chairman; job of raising as much n he could lay hands on the company's assets.

Saint-Gobain agreed capital increase which r stake to 39 per cent. It took some convertible ence stock; in 1976 it the Turner and Newall give it a final majority Substantial investm planned. In the fibre insulating field a \$100m ment over five years i is under way which w the American subsidia second or third positio sector, while a fibre insulating plant is bei for around \$20m. in Ca Later possibilities a chemicals and fine c investments while the effort is being bolstered

In 1967 Certain-Teed sales of \$167m. and ne of \$3m. In 1977 sale \$818m. and net earning Last year's \$118m. of income was divided: fibre glass (\$54m.), materials (\$45.5m.) and (\$18.5m.).

"Policy is to transfe. U.S. whatever techn transferable," says Gobain.

David

APOLLO

Edited by Dennis Sutton

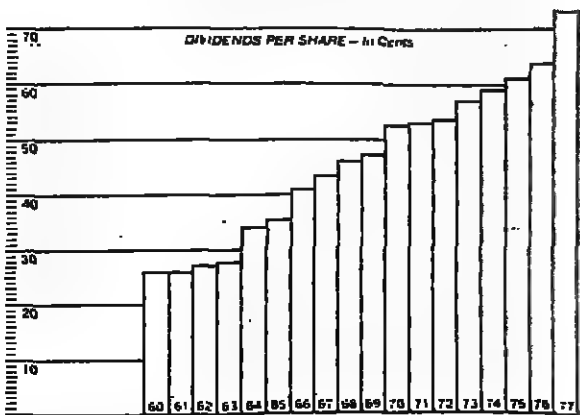
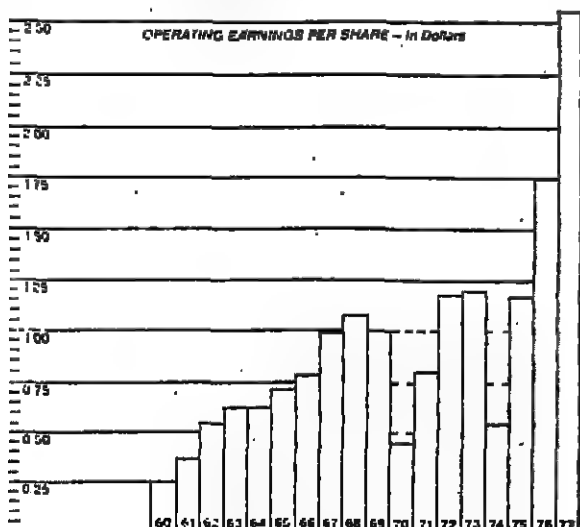
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Transamerica 1977 Report

Profits up 49 percent. All major subsidiaries set new earnings records.



1977 Highlights

- Operating income advanced to \$171.1 million (\$2.56 per share) on revenues of \$3.2 billion.
- Life insurance operations, led by Occidental Life, posted new highs in both revenues and operating earnings. Life insurance continues as the largest contributor of corporate earnings.
- Transamerica Insurance, our property/casualty insurance subsidiary, reported earnings more than double its record results of 1976.

- Our consumer lending company, Transamerica Financial, which operates more than 500 offices of Pacific Finance Loans in the U.S., had its best year ever.
- Transamerica Title Insurance Company achieved record profits and revenues aided by an active real estate market, particularly in the West, where its operations are concentrated.
- In the entertainment field, United Artists reported an all-time high in operating earnings and an industry record in worldwide theatrical revenues. A number of films, including "Rocky," which won the Academy Award for Best Picture, contributed to the success story.
- Trans International Airlines, our charter air carrier, showed substantially higher earnings for 1977 as the result of continued demand for low-cost passenger travel and a strong increase in cargo revenues.
- Budget Rent a Car had its best year to date with advances in revenues, earnings and fleet size. The Budget system continued to expand with new airport locations and overseas licenses.
- Delaval Turbine enjoyed its third consecutive year of record profits and revenues. Delaval is a major supplier of engineered products to the energy, aerospace, marine, petrochemical and process control markets.
- Cash Dividend Increase. Transamerica boosted its common stock dividend 21 percent in 1977 to an annual rate of 80 cents per share. The action marked the 16th consecutive year of dividend increases to shareholders who have maintained their investments in Transamerica.
- R.O.E. Consolidated operating earnings showed an after-tax return on average equity of 17.5 percent for 1977.
- Outlook. The prospects for Transamerica's businesses remain promising. We enter 1978—our 50th year—in strong financial condition and with sustained demand for our services and products.

John R. Beckett
Chairman and President
Transamerica

Transamerica

For a copy of our annual report write:
Corporate Relations Department, Transamerica Corporation,
600 Montgomery St., San Francisco, CA 94111.

Beecham

BEECHAM, the British pharmaceutical and consumer products group, is no newcomer to the U.S. market both in terms of investment and sales. Starting with Brylcreem before World War II, Beecham has gradually built up its U.S. presence to the point where North and South American sales now account for about a fifth of its world turnover of \$820m.

The company's activities divide quite cleanly into pharmaceutical and consumer sales. On the consumer front Beecham relaunched Brylcreem in the U.S. after the war, and during the fifties built this up into a brand leader. In the 1960s it began to make and market Macleans toothpaste in the U.S.

In April 1971 the company acquired for \$55m. S. E. Massengill, a company whose main products lay in the pharmaceutical area but which contributed a well established line of feminine hygiene products to Beecham's U.S. consumer sales. A year ago Beecham made its largest ever investment in the U.S., buying the Calgon consumer products business for \$81m. from its pharmaceutical rival, Merck.

The most attractive product here was Cling Free, an anti-static fabric softener, backed by a Calgon range of detergents and water softeners, and an established cough mixture and throat tablet.

The interesting thing about this growth in the U.S. consumer business is Beecham's evident ability to thrive in what is normally considered to be the land that sets the pace in consumer marketing techniques.



Mr. G. J. (Bob) Wilkins, chairman and chief executive Beecham Group

Meanwhile Beecham has built its pharmaceutical marketing presence rather than its products. To-day the company's most important pharmaceutical product is probably Amoxycillin, a broad spectrum antibiotic.

Beecham also has a growing veterinary business in the U.S. It expanded this recently with the purchase from Rohm and Haas, a U.S. chemicals company, of its veterinary and animal health interest for \$9.5m.

Nicholas Colchester

Siemens

SIEMENS, one of the largest electrical and electronics groups in the world has chosen a cautious step-by-step approach to investment in the U.S. But there can be no doubt that in the past 18 months the pace of its infiltration into the U.S. market has quickened.

In this period it has purchased 80 per cent of Litronix, a California manufacturer of semiconductor and optoelectronic devices and 20 per cent of Advanced Micro Devices, a growing maker of integrated circuits. It has formed a joint venture, called Silecor with Corning Glass Works, to make optical fibre communications cable, and a second joint venture with Allis-Chalmers called Siemens-Allis which will sell electrical switchgear and other power transmission equipment.



Dr. Bernard Plettner, chairman, Siemens.

If this suggests rather a fragmented approach to the U.S. market that is exactly the way the Siemens top management would have it. Siemens has an extremely broad product range and each of its product divisions has a high degree of autonomy. Siemens' tendency towards U.S. investment is the result of the independent business strategies of several Siemens divisions.

The result is that instead of making a few headline-biting acquisitions or investments, Siemens is moving less conspicuously into the U.S. than other European companies, and often by way of co-operation rather than by going it alone.

After a slow start in the U.S. in the 1950s, when the company concentrated on medical equipment sales and then a gradually growing list of other Siemens products, there was something

of a turning point in 1970. In that year Siemens established its first corporate headquarters in the U.S. Its KWU subsidiary (at that time 50 per cent owned) also took a 50 per cent interest in Allis-Chalmers Power Systems—a joint venture to make power generation equipment.

This last venture is attracting some attention in the U.S. at the moment because it seems that KWU, the Siemens subsidiary and Germany's main maker of nuclear power stations, may be about to build a plant in Florida for the manufacture of turbo-generators. This would indeed be a major step for Siemens, but sources at the headquarters of the company in Munich insist that a final decision on this plant is dependent on some upturn in the U.S. market for generating equipment.

But while Siemens weighs its chances in the U.S. in this traditional area of German engineering skill, it is forging ahead in its campaign to buy into areas of technology where America excels. The acquisition last November of its stake in Advanced Micro Devices was the culmination of several years of looking for the right way into the vital business of integrated circuits. The two companies are now to form a new company, 60 per cent owned by Siemens, and called Advanced Micro Computers. It will produce a full line of micro-computer systems.

Nicholas Colchester



Bayer AG's complex at Leverkusen, W. Germany, houses the group's main factory for chemicals production and its administrative and sales headquarters as well.

Unilever

TWO YEARS of intense effort to complete an acquisition which only stands to increase earnings by about 1 per cent may sound like a quixotic use of management time. But when the deal is one of the biggest ever transnational takeovers—as is Unilever's proposed \$485m. offer for National Starch and Chemical Corporation of New Jersey—then there are bound to be a few complications.

When Unilever decided that it had to increase the U.S. proportion of its international portfolio of business, its first problem was to identify a purchase that would be big enough to make a difference, and yet which would not lead to trouble with the antitrust authorities. Greenfield investment on a really significant scale was thought to be too risky. Its existing U.S. interests in detergents, toilet preparations and tea were already big enough to bar any purchases in these areas, and an attempt to buy a foods or consumer products business might have been opposed by the U.S. authorities under the doctrine of potential entry.

At the same time, although the group was prepared to widen its industrial base, it was not willing to move into completely unknown territory.

National Starch was one of a dozen companies on Unilever's list (it was not the biggest) and its qualities included strong management, a good profit record, availability, and lines of business which Unilever knows something about both as a consumer and as a chemical manufacturer outside the U.S. Final antitrust clearance has yet to be obtained, but is not thought to be a serious problem.

Preliminary talks started last summer, and the proposed deal was announced in mid-



Sir David Orr, chairman, Unilever

December. Since then, the main groups should be organised prior to completion. Preparatory work has gone ahead on the various proxy filings required by the Securities and Exchange Commission.

Altogether not far short of ten separate teams of lawyers will be asked to approve the deal sometime in June. If anything, the delay may well have made them more compliant than otherwise. When it was announced, the price offered by Unilever was about 70 per cent above earlier market levels—and since then the Dow Jones Index has dropped by nearly a tenth.

Meanwhile, there has been plenty to do. The original letter of intent has been superseded by a full scale merger agreement, several hundred pages long, and a further document terms were announced in mid-

Richard Lambert

Bayer

THE CHEMICALS industry has for long been among the leading West German investors overseas. The rise in the value of the Deutschmark and the decline of the dollar, coupled with steeply increasing labour costs and environmental protection overheads, has only served to increase the impetus in foreign investment.

Of the three West German chemical giants—Hoechst, Bayer and BASF—Bayer has devoted more of its resources to overseas investment. It is heavily dependent on its foreign turnover. Close on 60 per cent of the parent's sales are generated abroad, while nearly 70 per cent of total group sales come from outside the Federal Republic.

Last year the group's investment world-wide amounted to some DM1.7bn. (\$454.55m.) of which a hefty chunk went overseas. The United States received a major share of this with the strong point being the group's \$251.6m. acquisition of a 97 per cent interest in Miles Laboratories, manufacturers, among other things, of Alka Seltzer.

Bayer, whose turnover in the first nine months of last year rose 2.1 per cent to DM16.3bn. (\$4.33bn.), now has three major US subsidiaries which in 1976—the latest figures available—reported sales of a total of \$1.16bn. The other two are Mobay Chemicals Corporation of Pittsburgh and Cutter Laboratories of Berkeley, each 100 per cent owned by the group through its U.S. holding company, Rhinchem Corporation.

While the decline in the value of the dollar has done little for Bayer's Deutschmark profits, it has enabled the group—like many other West German industrial concerns—to invest in the U.S. at what in D-mark terms at least, are very attractive prices. Miles Laboratories cost Bayer \$47 per share, well up on the original \$40 offer. Although this

price raised eyebrows in some quarters, it acquired what analysts have rated as a good medium term investment provided management can achieve its goal of raising return on investment.

Bayer's record in this field has been good. When it acquired Cutter Laboratories in 1974, for instance, the U.S. group was a loss-maker. By 1976, however, it turned in pre-tax profits of \$6m. on sales of \$163m.

Miles is strong in pharmaceuticals, diagnostics, food preparations and special bio-chemical products and fits well in to the Bayer nest. With manufacturing facilities in 21 countries, it offers considerable scope for rationalisation—an area in which the West German chemicals industry, perforce of necessity, is expert.

Bayer's interest in the U.S. market—after all, the world's largest—is likely to continue as the decline of the dollar is making it increasingly difficult to compete from its West German production facilities. In Deutschmark terms, personnel costs have increased by 68 per cent in the five years since 1972. This is an average of 11.1 per cent a year and a very steep rise indeed in a country where the inflation rate has been well below the European level. Furthermore the effects of this have been gravely exacerbated by the rise in the value of the Deutschmark and the decline of the dollar.

During the past 12 months the parity of the dollar against the D-mark has fallen from nearly DM2.40 to about DM2 and no real end to the decline is yet in sight. This has left West Germany's chemicals majors with precious little alternative but to channel an increasing proportion of their capital investment overseas.

Guy Hawtin

Sixty minutes of sound advice can save months of searching for the right location in the States.

It's a safe bet that, like the average European businessman, you're aware of an increasing number of European companies opening offices in the United States.

What may surprise you, though, is that a growing number are small firms, companies not generally regarded as "multi-nationals". Today, it's no longer necessary to be a giant like Volkswagen to compete successfully in the largest homogeneous market in the world. More and more product categories have been penetrated by smaller companies acting upon sound planning and sound advice.

Yet, for many companies, practical advice from companies, who have already succeeded in a foreign market, is hard to come by.

To help overcome this problem, and to help you take advantage of what is surely the most important single market in the world, the developers of the International Center for Business and Industry in Reston, Virginia have put together "Sixty Minutes of Sound Advice", taped interviews with European businessmen who have opened offices in the States and met with considerable success. A recording of the interviews is yours free with the coupon below.

"Sound Advice" is more than a dry listing of facts about locating in the United States. It is a compendium of personal advice, from experienced businessmen about a subject where it is often difficult to get advice.



(We asked the Chief Executive Officers of companies that had successfully located in the United States what a businessman just coming into the market should look for.)

"Sound Advice" contains the comments of 1.) Robert Rose, Manager of Technical Services of the North American Division of Kockums Chemical, 2.) Frederick Bley, President of Optical and Electronic Research, Inc., 3.) Jack Leonard, Chairman of Eurotherm Corporation, and 4.) Roland Westerdal, President of Bilsom International Inc.)

Each of these leaders has donated time in order to save you time. According to one, "I wouldn't be where I am today if I hadn't been helped when I started out."

The four companies represented sell or manufacture a wide range of products. Each has a sales organization with responsibility for the entire United States. So any company looking for one location that serves the entire market should find their advice invaluable.

If you are interested in importing goods by air, you'll be interested in comments like this: "Thanks to Dulles International airport, we can phone London on Monday and have the materials we need on our premises Tuesday afternoon."

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What are the advantages of being located near the national government?



"Sound Advice" is a gold mine of information and it's free.

In short, "Sound Advice" is a virtual gold mine of information. The people who have put this together are the marketing people at Reston, Virginia. In case you are not familiar with Reston, the world renowned new town just outside Washington, D.C., it is an ingeniously planned residential and business community located 5 miles from Dulles International Airport and 18 miles from the White House.

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GOLDMAN SACHS CAPABILITY: OVER \$22 BILLION IN DOMESTIC AND INTERNATIONAL FINANCINGS IN 1977

\$150,000,000 Kingdom of Norway 7% Notes Due February 1, 1982	\$100,000,000 Kraft, Inc. 7.60% Sinking Fund Debentures due January 15, 2007	<p>Last year, Goldman Sachs managed or co-managed 104 domestic and international public offerings totaling \$8.1 billion. These included over \$1.2 billion in underwritings for overseas corporations, governments and international agencies.</p> <p>In addition, we were a manager or an agent for \$14.1 billion in other private and municipal financings, including \$1 billion for non-U.S. corporations and governmental issuers.</p> <p>We believe this 1977 record reflects our commitment to perform on behalf of every client. And commitment is an essential part of Goldman Sachs capability. An uncommon capability in more than 40 financing and investing services.</p>		1,500,000 Shares Reynolds Metals Company Common Stock	\$350,000,000 CITICORP 8.45% Notes Due March 15, 2007
CAVENHAM INTERNATIONAL B.V. U.S. \$50,000,000 7 1/2% per cent. Guaranteed Bonds due 1987 Issued and guaranteed by CAVENHAM LIMITED and GENERALE OCCIDENTALE	\$100,000,000 Pacific Power & Light Company First Mortgage Bonds 8 1/4% Notes due November 1, 2007			13,357,000 American Depositary Shares Representing 13,357,000 \$1 Units of Ordinary Stock The British Petroleum Company Limited	Wacoal Corp. (A Japanese Corporation) 1,200,000 American Depositary Shares Representing 6,000,000 Shares of Common Stock
5,000,000 UNITS American Airlines, Inc. 3,000,000 UNITS OF \$2.175 (100% LIBOR) PREFERRED STOCK WITH WARRANTS TO PURCHASE 5,000,000 SHARES OF COMMON STOCK	458,350 Shares Lucky Stores, Inc. Common Stock			701,889 Shares WellTech, Inc. Class A Common Stock	2,750,000 Shares Manufacturers Hanover Corporation Common Stock
5,000,000 Shares TEXAS UTILITIES COMPANY Common Stock	General Foods, Limited (Incorporated under the laws of Canada) Can. \$35,000,000 8 1/2% Notes 1984			\$20,000,000 United Bank Corporation of New York 7 3/4% Notes Due June 15, 1987	1,200,000 Shares Levi's Levi Strauss & Co Common Stock
\$40,000,000 U.S. BANCORP 7 1/4% Notes Due February 15, 1987	\$100,000,000 Inter-American Development Bank 8 1/4% Twenty-Five Year Bonds of 1977, due June 1, 2003			\$35,000,000 Metropolitan Edison Company First Mortgage Bonds, 8 1/2% Series due 2007	
\$50,000,000 Caisse Nationale des Autoroutes 9 1/4% Guaranteed Bonds Due March 15, 1997 Unconditionally guaranteed as to payment of principal, premium, if any, and interest by The Republic of France	\$125,000,000 Province of Saskatchewan (Canada) 8 1/2% Debentures Due 2007	\$50,000,000 Ito-Yokado Co., Ltd. (A Japanese Corporation) 6% Convertible Debentures due August 31, 1992	\$50,000,000 Republic of Finland 8 1/2% External Loan Bonds Due 1992	Ford Motor Credit Company of Canada, Limited Can. \$20,000,000 8 1/4% Guaranteed Notes due May 15, 1984 Can. \$30,000,000 8 1/4% Guaranteed Notes due May 15, 1987 Unconditionally Guaranteed as to Payment of Principal and Interest by Ford Motor Credit Company	
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The Wickes Corporation \$15,000,000 8.25% Notes due July 1, 1984 \$35,000,000 8.875% Sinking Fund Debentures due July 1, 1987	\$75,000,000 UT Credit Corporation 8 1/4% Series B Sinking Fund Notes due July 1, 2002	\$25,000,000 The Potomac Edison Company First Mortgage Bonds, 8 1/2% Series Due 2007	\$200,000,000 PACIFIC GAS AND ELECTRIC COMPANY First and Refunding Mortgage Bonds Series 7A, 7B, 7C, Due February 1, 2005	Allstate Allstate Financial Corporation \$75,000,000 7 1/4% Senior Notes due April 15, 1987 \$25,000,000 8 1/4% Subordinated Notes due April 15, 1987	\$60,000,000 Gulf United Corporation 8 1/4% Sinking Fund Debentures due July 15, 2002
\$50,000,000 American Credit Corporation 8 1/4% Senior Debentures due January 15, 1997	\$150,000,000 Michigan Bell Telephone Company Thirty-Eight Year 8 1/4% Debentures, Due June 1, 2015	250,000 Shares Intermountain Gas Company Common Stock	\$50,000,000 Walter Kidde Overseas Finance N.Y. (A wholly-owned subsidiary of Walter Kidde & Company, Inc.) 8 1/2% Convertible Notes due July 1, 1985 Unconditionally Guaranteed as to Payment of Principal, Premium, if any, and Interest by Walter Kidde & Company, Inc.	\$125,000,000 Southern California Edison Company 8 1/4% First and Refunding Mortgage Bonds, Series HH, Due 2005	
Sears \$300,000,000 Sears, Roebuck and Co. 7 1/4% Sinking Fund Debentures due February 1, 2007	750,000 Shares Shaklee Corporation Common Stock	\$350,000,000 South Central Bell Telephone Company Thirty-Eight Year 8 1/4% Debentures, Due November 1, 2015	\$100,000,000 Kingdom of Norway 7 1/4% Notes Due June 15, 1982	\$50,000,000 Northern Indiana Public Service Company First Mortgage Bonds, Series Z, 8 1/2%, due August 15, 2007	\$50,000,000 The May Department Stores Company 7.95% Sinking Fund Debentures due July 15, 2002
Société Nationale des Chemins de fer Français \$15,000,000 8 1/4% (Guaranteed) Notes due 1984 Issued and guaranteed by The Republic of France	\$75,000,000 Baltimore Gas and Electric Company 8 1/4% Series Due September 15, 2007 First Refunding Mortgage Bonds	\$100,000,000 Ford Motor Credit Company 7.85% Notes due March 1, 1988 \$100,000,000 8 1/4% Debentures due December 1, 2002 \$100,000,000 8 1/4% Subordinated Debentures due December 1, 2002	\$100,000,000 The LTV Corporation 7 1/2% Units \$75,000,000 of 9 1/4% Sinking Fund Debentures due February 1, 1997 1,000,000 Shares of Common Stock	\$50,000,000 Beecham Financing B.V. U.S. \$30,000,000 6 1/2% Convertible Guaranteed Bonds 1982 Guaranteed as to payment of principal, premium, if any, and interest by Beecham Group Limited	\$50,000,000 Electricité de France 8 1/4% Guaranteed External Notes due June 1, 1987 Interest payable June 1 and December 1 Payment of interest guaranteed by The Republic of France
\$150,000,000 Manufacturers Hanover Corporation 8 1/4% Sinking Fund Debentures Due August 15, 2007	\$60,000,000 ENSERCH CORPORATION 8 1/4% Sinking Fund Debentures Due 2002	\$11,000,000 Interstate Power Company First Mortgage Bonds, 8 1/2% Series Due 2002	\$75,000,000 Central Power and Light Company First Mortgage Bonds Series G, H, I, J, due October 1, 2007	\$50,000,000 San Diego Gas & Electric Company First Mortgage Bonds, 8 1/2% Series Q due 2007	\$100,000,000 Carolina Power & Light Company First Mortgage Bonds, 8 1/4% Series due October 1, 2007
\$50,000,000 The Southland Corporation 8 1/4% Sinking Fund Debentures due February 15, 2002	\$25,000,000 BAKER INTERNATIONAL CORPORATION 7.55% Notes Due 1987	\$100,000,000 American Hospital Supply Corporation 7 1/4% Debentures Due 2007	\$250,000,000 CITICORP 8 1/2% Notes Due July 1, 2007	\$60,000,000 NEW YORK STATE ELECTRIC & GAS CORPORATION First Mortgage Bonds, 8 1/2% Series due 2007	\$50,000,000 Harte-Hanks Newspapers, Inc. Common Stock
3,000,000 Shares pepco Potomac Electric Power Company Common Stock	300,000 Shares Southwestern Electric Power Company 8 1/4% Preferred Stock	\$50,000,000 Singer International Securities Company 8 1/2% Convertible Bonds due April 1, 1992 Unconditionally Guaranteed as to Payment of Principal and Interest by The Singer Company	\$50,000,000 Walter Kidde & Company, Inc. 8 1/2% Sinking Fund Debentures due December 15, 2002	\$85,000,000 Public Service Company of Indiana, Inc. First Mortgage Bonds, Series Z, 7 1/2% Due January 1, 2007	\$30,000,000 Southern Indiana Gas and Electric Company First Mortgage Bonds, 8 1/2% Series of 1977 due 2007
\$200,000,000 Home Savings and Loan Association 7 1/4% Mortgage-Backed Bonds, Series A, Due June 15, 1982	\$150,000,000 Commonwealth Edison Company First Mortgage Bonds, Series 36, due June 1, 2007	\$150,000,000 TOKYU DEPARTMENT STORE CO., LTD. (Incorporated in Japan) U.S. \$15,000,000 6 per cent. Convertible Bonds 1992	\$60,000,000 Jersey Central Power & Light Company First Mortgage Bonds, 8 1/2% Series due 2007	\$100,000,000 Alabama Power Company First Mortgage Bonds 8 1/2% Series due July 1, 2007	\$180,000,000 Commonwealth Edison Company First Mortgage Bonds, Series 36, due January 15, 2007
\$130,000,000 Indiana Bell Telephone Company, Incorporated Forty Year 8 1/4% Debentures, Due March 1, 2017	\$75,000,000 Consolidated Natural Gas Company 8 1/4% Debentures Due June 1, 2007	\$310,000,000 South Central Bell Telephone Company Forty Year 8 1/4% Debentures, Due March 1, 2017	OLC U.S. \$20,000,000 Orient Leasing (Incorporated in Japan) 8 1/2% per cent. Guaranteed Notes due 1988 Unconditionally Guaranteed as to Payment of Principal, Premium, if any, and Interest by OLC	\$300,000,000 Duquesne Light Company First Mortgage Bonds, 8 1/2% Series due April 1, 2007	750,000 Shares Southern Indiana Gas and Electric Company Common Stock
\$100,000,000 Motorola, Inc. 8 1/2% Sinking Fund Debentures due October 1, 2007	300,000 Shares Texas Power & Light Company 8 1/2% Preferred Stock, Cumulative	450,000 Shares The Dexter Corporation Common Stock	\$300,000,000 Allegany Power System, Inc. Common Stock	\$300,000,000 Stanley Electric Co., Ltd. (Incorporated in Japan) 6,000,000 Shares of Common Stock evidenced by European Depositary Receipt	

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هكزايم النهر

Another bite at the HS-146 feeder-liner

By MICHAEL DONNE, Aerospace Correspondent

BRITISH AEROSPACE'S re-est to restart the HS-146 port-haul feeder-liner aircraft programme is a move intended to revitalise the flagging fortunes of at least part of the aircraft industry, in this country, and also, it is hoped, the nationalised group on its way to a brighter future in the world commercial aircraft market. The Government is expected to reply to the request on.

The project was first begun in 1973, on a joint Government and Hawker Siddeley Aviation investment of £80m, at fixed price, 1972, prices. Only a year later, however, Hawker Siddeley Aviation pulled out, changing its mind on the project's costs and prospects in the light of the world-wide economic recession that followed the oil crisis of late 1973. As a result, the Government withdrew its own investment. Subsequently, under trades union pressure, the project has been put barely "ticking over," with limited injection of Government money for design work, since the day when it might be possible to restore the aircraft to full development and production.

British Aerospace, formed from the nationalisation of Hawker Siddeley Aviation and other aircraft companies, British Aircraft Corporation, Hawker Aircraft Dynamics and British Aerospace, now believes at the world-wide situation has changed sufficiently to justify reviving the venture, and wants Government approval not only to eventually make Government cash for it. When first mooted in 1973, the HS-146 was described as a "good neighbour" jet, aimed at the market for a quiet, low-noise (70-100 seats) type of aircraft capable of using grass strips, with low noise levels,

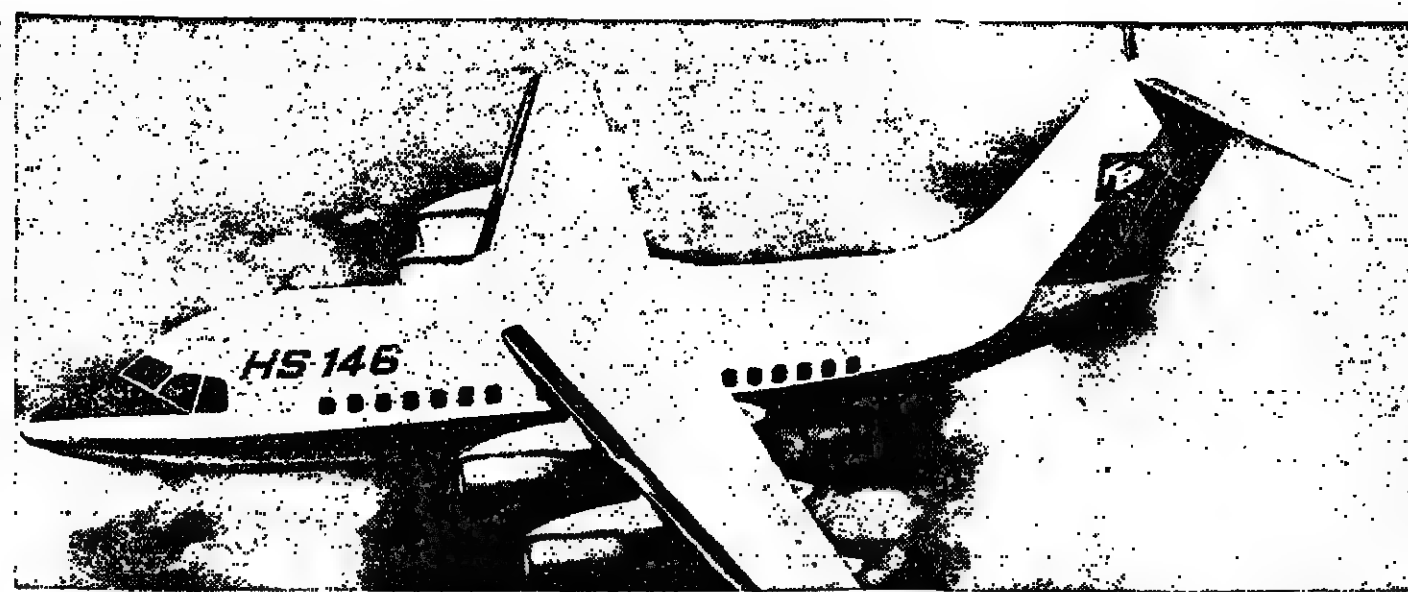
bringing bus-stop-type air service to many communities throughout the world which either had previously no air service at all or had been obliged to make do with piston-engined or turbo-prop airliners. The HS-146 is a four-engine, high-wing aircraft, and is intended to fly at 500 mph over distances of up to 1,200 miles, although most of its stages are likely to be in the 100-200 miles, or so, category.

The request for approval to restart the venture is significant for several reasons. First, it is the initial move in what will probably be a four-stage plan by British Aerospace to revitalise Britain's flagging civil aircraft industry (the other measures, to be taken later, will include decisions on a new 120-seat version of the BAC One-Eleven; on a new 180-seater, perhaps with Western Europe or the U.S.; and finally on a 200-seater, such as the B-10 version of the European Airbus).

20,000 jobs

Secondly, although the HS-146 plan is not intended merely to bolster employment in the former Hawker Siddeley factory at Hatfield and elsewhere, where work on existing civil ventures is running down, a go-ahead will undoubtedly revolutionise employment prospects. At peak manufacturing point, the HS-146 programme is likely to provide jobs for up to 20,000 aerospace industry workers, depending entirely on how well the aircraft sells in world markets. Without it, undoubtedly some of those workers would find themselves redundant later this year.

Third, the decision to seek a go-ahead reflects British Aerospace's confidence in the long-term prospects for a jet of this



British Aerospace believes its relative cheapness, 500-mph performance and 1,200-mile range would make the HS-146 an ideal Third World "bus-stop" jet.

type. So far, the group has published no figures to support its application to the Government, but it is believed to feel that there could be a world market for around 1,200 of these feeder-liner types over the next ten years or so, of which about half might be new or second-hand Boeing 737s or Douglas DC-9s, and the rest new aircraft of other kinds, including Fokker F-28s, Canadian DHC-7s, as well as HS-146s. British Aerospace feels that if it can only win orders for 300 aircraft, it will not be doing badly. It is also hoping for military market for the aircraft.

Much, of course, will depend upon how heavy the investment in the programme will be. The investment in the original four years later, it is not likely to be less than £200m., and may well be more, depending upon how inflation runs over the next four or five years before the

aircraft is likely to enter service. The Government, having been left holding the baby once before, after Hawker decided to withdraw unilaterally, will want to be reasonably assured that any funds invested in the revived programme, whether British Aerospace's own money or Government launching aid, or both, is not likely to be wasted on a programme with limited market potential.

The Government will also have to take into consideration the fact that the HS-146 is only one—and probably the smallest—of several major investment programmes sought in the aerospace industry for the next five years, that collectively will cost about £1bn. and perhaps even more. These include the other aircraft programmes already mentioned, and in addition several major new engine programmes, such as the Rolls-Royce 635 version of the RB-

211, aimed at the new Boeing "family" of jets; the RB-432, an engine in the "middle thrust" range that could be used in future versions of the One-Eleven; and the RB-401, a new small engine for business jets (and perhaps also light combat aircraft). While British Aerospace will find a substantial share of this cash from its own resources, it is clear the Government will also be asked to subsidise some of it, and it cannot afford to waste a penny. Thus, with the memory of earlier ventures started with high hopes but which came to little or nothing, the Government will need to be convinced of the validity of all British Aerospace's predictions about costs and markets, before committing itself. The manufacturer takes the view that, in spite of the fact that one of its original rivals, the VFW-614, has recently been cancelled for lack of orders, and that another,

the Fokker F-28 Fellowship, is selling only slowly, there is still a market for a new small aircraft of this type, that can be built quickly with mainly off-the-shelf components (including the four U.S. Avco Lycoming ALF-302H jets), and requiring little in the way of advanced technology, so that it will be simple, rugged, reliable and, above all, cheap.

So far, British Aerospace has not published any reasons for this conviction, but the Government undoubtedly will want to be given chapter and verse for the group's confidence that it can succeed where one of its competitors has failed, and another has made only comparative slow progress. Unless and until British Aerospace provides this information, there is bound to be a suspicion that the HS-146 is being urged on the Government as an "employment booster" rather than a viable project in its own right.

One factor in favour of the HS-146 is that it is a programme the U.K. can get on with quickly, without having to become involved in long and difficult international negotiations on possible collaboration. While originally it was envisaged that there might be some collaboration with European companies on the venture, the aim now is to get on with it entirely in the U.K., except for the engines, or where components are bought off-the-shelf overseas. Thus, it will be open to foreign companies to tender for contracts to supply equipment items, and they could get the business if they undercut British component suppliers.

Cheap

Keeping the cost down is vital if British Aerospace is to win the orders it needs from countries which cannot afford expensive aeroplanes, but still want something cheap and quickly available. British Aerospace sees nothing wrong in developing an aircraft of this kind without direct European collaboration, which is being reserved for the bigger ventures. One criticism that may be levelled against the venture—as it was originally—is that it uses an American engine. The reason is that neither in 1973, nor now, was or is there a British engine available in the same power-bracket (about 3,500 hp of thrust). At this stage, the Rolls-Royce-Snecma M-45 series which powered the VFW-614 is too large (about 8,000 hp), and its future is also uncertain. The RB-401 is too small (about 5,500 hp thrust) and is not yet developed. Avco Lycoming ALF-302H is available, and is derived from the military T-55 engine which has already logged well over 8m. hours of flying.

Overall, British Aerospace appears confident that the HS-146 will ensure that a substantial part of the U.K. aircraft industry will retain a high level of capability in aircraft design, development and manufacture; prevent any rundown of labour in parts of the industry where existing workloads are thinning rapidly; and in effect underpin the industry, supplementing the additional bigger ventures that may be initiated in the near future.

Because a great deal of work on the venture has already been done in the past four-year "tick-over" period, it is likely that once Government approval for a go-ahead is given, progress could be rapid, with final design moving into top gear in the latter part of this year, and aircraft coming off the line in about two to three years time, around 1980-81, and entering airline service in about 1982. If the world demand expands the way British Aerospace hopes and believes it will, the programme probably could be accelerated.

But British Aerospace believes that one of the major points in the HS-146's favour is that it will virtually be in a class of its own—the only really new, cheap feeder-liner and bus-stop jet designed especially for Third World markets—and that if allowed to go ahead, it could establish a commanding lead in world markets that could perhaps make it unbeatable. It is a risk, but in British Aerospace's view a calculated one. Lord Beswick, British Aerospace's chairman, has always made it plain publicly that he wants every new project undertaken by the group to be commercial, earning profits. With the HS-146, he feels the group has its first real chance since nationalisation of proving the point.

Letters to the Editor

The future for coal

On the Chairman, National Coal Board.
Sir—Ray Dafter's article on the coal industry in the March 31 issue of the *Financial Times* is a welcome contribution to the debate on the future of coal. He estimates that "10 years of output from the coal industry (that is, the 30 or so plants now on stream or under development) could have been used to about half their peak," and he concludes that "the prospects are already being plotted. What remains to be done will be very much a second act."

Whatever may be the success of the expansion of nuclear power, there will be a continuing need for fossil fuel. Coal is the only fossil fuel we possess with ample reserves (at least 300 years at present rates of production). The energy situation in which we are likely to find ourselves towards the end of this century fully justifies present plans for the progressive expansion of coal production and for increased efforts being put to coal research. In due course coal will undoubtedly have a new role to play as a replacement fuel for gas and gas through conversion techniques now being actively developed by the National Coal Board. The oil companies, in the meantime, are rightly urged to look for a relatively small but crucially important role for coal in the oil company's premium uses (oil taking on more of the premium load, as in the case of the *Essex* (Sir), *Essex House*, *Essex Place, S.W.1*).

Research into management

On the director, The Centre for Management Research.
Sir—Readers of your *Men* column of March 30 might be excused for thinking at our recently completed research project into reasons for differences in performance in scope of the conclusions are superficial and obvious. I wish to correct this impression. The project and its conclusions do not relate only to the few firms mentioned in your column, but to a much wider range of firms, represented by some 100 performance data including detailed ratios; productivity ratios; ratios indicating degree of utilisation of each kind of fixed and current assets; plant and investment; employment; and assets and profits; and size of firm. It also involved considering information on over 100 management policies and practices which together covered every major management function as well as background information about such matters as ownership and location of the firm. The data were available to us in depth, and on a relatively comparable basis of analysis, over a period ranging from seven years to 240 companies in several industries and sectors.

At a time when there is much concern about the level of U.K. industrial performance, information about the factors which use firms to be more or less effective is, we think, of interest. Management and all others concerned with improving industrial performance. This is particularly so if the information is based not on subjective impressions, a few case studies, or

someone's pet theory, but on a painstaking investigation of the actual facts such as was carried out during our recent research. Results so far have produced a whole range of conclusions relating not only to most aspects of operating performance and their relationship to overall efficiency, but also to the kinds of management policies and practices which are or are not linked to success.

I. Taylor Harrington,
25, Bloomsbury Square, W.C.1.

Controls on imports

From Mr. D. Layton.
Sir—Anthony Harris (Economic Viewpoint, March 30) was more sympathetic than I can be to the Cambridge Economic Policy Group's advocacy (yet again) of import controls as the only "practical" means of achieving a rate of growth sufficient to reduce unemployment to 1m. by 1985 and 500,000 by 1990.

In my view, restrictions severe enough to keep out one quarter of our total imports of manufactured goods by the late 1980s would be disastrous; imposed during a period when the group expects world trade to be growing only slowly, they might well set in motion a wave of retaliatory protectionism which would drastically reduce the volume of world trade on which we (with a relatively small home market) crucially depend. Furthermore, so far from encouraging extra efficiency, protection on such a large scale would, I believe, reduce the incentive to improve it, and without greatly increased efficiency and productivity, there would be a diversion to the home market of goods which would otherwise have been exported. Despite this diversion, British industry would almost certainly be unable to provide replacements for all the lost imports, so that demand would exceed supply and force prices up (unless, of course, it were deliberately reduced by fiscal or monetary measures, which would defeat the object of the whole exercise).

There is, I believe, only one solution to our problem of slow growth and high unemployment, and that is improved productivity. Your Midlands correspondent (March 30) quoted an internal report which suggests that British Leyland's output per man is half that on the Continent. The recent Sunday Times survey, which compared British Leyland's performance at Dagenham with that of Ford's Continental factories using identical machinery, reached a similarly unfavourable conclusion. Until management and unions can co-operate to correct fundamental weaknesses of this kind, no other measures can be more than temporary palliatives.

D. G. Layton,
33, Cranborne Avenue,
Bosbourne, East Sussex.

Busted bonds

From Commander R. D. Ross, RN.
Sir—I read with interest James Bartholomew's article on the collection of Provincial Notes (April 1). In his article he referred also to the collection of "worthless bonds" and repeated an opinion that there were too many of these around to make their collection worthwhile. The collection of "bonds" to which he refers is generally understood to embrace both bonds on the issuing country, as well as share certificates of extinct companies. The view that the variety

of such share certificates is exceptionally broad is, with only a few exceptions in specialised fields, undoubtedly correct but the same does not apply to "busted bonds".

The size of bond issues is nearly always easily ascertainable and many of these are still dealt with on the Stock Exchange—prices are quoted in the Official List. A further attraction of such bonds is that the possibility of a settlement may exist. Typical examples are the Chinese loans whose total outstanding capital is limited to £61m. A large proportion of these bond certificates must have been lost or destroyed in the 70 years since the first issue was made and the possibility of a settlement cannot be ruled out in the case of a country who is an applicant to join the World Bank.

The description of bonds as "worthless" is therefore misleading and this collector—until such time as a better title can be thought of—would prefer to continue the use of "busted".
Donald Ross,
Heatherdene,
Blackhall Lane,
Sevenoaks, Kent.

Decisions on education

From the Greater London Council Member for Finchley.
Sir—Just to settle the matter, could Mrs. Alice Waters (April 3) provide us with a list of significant decisions in which Kent Education Committee successfully defied Government policy during, say, the past year? It is irrelevant to talk about "freedom" unless you are free to disagree with Government and get away with it.

Roland Freeman,
Members' Lobby,
County Hall, S.E.1.

Index-linked pensions

From Mr. B. Davies.
Sir—Mr. Furse's letter of March 22, concerning the cost of index-linked civil service pensions, implies that he is unable to understand the arguments involved. He refers to the evidence to the Select Committee but has clearly not comprehended what it actually says. There is his misunderstanding about the comparison made. The evidence is quite clear that the comparison which needs to be made by the Government Actuary is not, as suggested by Mr. Furse by his reference to National Association of Pension Funds surveys, with the post-retirement increases currently provided by the generality of pension schemes. Rather it is with the pension schemes of the restricted group of employments used as analogues by the Pay Research Unit and that study showed that these schemes are expected to provide more generous inflation proofing than the average scheme.

He suggests that the Government Actuary made the right assumptions in 1973 is of course arguable. What Mr. Furse ignores from the Select Committee evidence, however, is that the Independent Actuary (who

we can assume is no more or less professionally competent than the Government Actuary) stated that we would agree that the assumptions for the analogue scheme were in line with those being adopted at that time for funding such schemes. . . . In other words the suggestion always implicit in Mr. Furse's letters, that in some way the Government Actuary did not give an independent professional judgment on the matter, is quite unfounded.

B. H. Davies,
49, Cleaver Square, S.E.11.

Urgent airmail overseas

From Mr. W. Jaspert.
Sir—At London Heathrow airport post office facilities are provided in terminals 1, 2 and 3. At most major European airports, similar facilities are provided. If one takes an urgent letter in Europe to the airport post office, then it will be sorted at the airport and speedily despatched.

At Heathrow, though, they do things differently. The letters are taken back to central London for sorting and then brought back to the airport. This is in the interest of efficiency! So a letter posted from the airport is actually delayed. It seems that this interesting service was devised by the Post Office about 2½ years ago. Before then letters were sorted at the airport and sent off quickly to destinations overseas. Perhaps more influential organisations could prevail upon the Post Office to take a fresh look at this irrational set up.

W. F. Jaspert,
89a, Belrose Lane, N.W.3.

Aid schemes for industry

From Mr. B. Manning.
Sir—With reference to your article on aid schemes for industry (March 22) it seems to me that the needs of the smaller firms have been rather over-

looked by the Government. True, grants are available to small firms, but many small firms find the sheer volume of paper work necessary to support an application a disincentive to apply. My company has done some research into reactions to the offer of development grants. On the whole, the larger companies knew what was available and had taken full advantage of the offer. It was the small to medium sized businesses who found that they just did not have the capacity to cope with the masses of statistics involved in applying. Yet these are the very areas where a Government grant could open the door to expansion and development. It is a pity that more attention is not paid to this area which could benefit most from Government help.

Bryan R. Manning,
(Senior consultant),
Handley-Walker Company,
Leigh House, Ormond Yard,
St. James's, S.W.1.

which should have been returned to their owners within three months. Immediate approval was to be given to applications for transfer into sterling of up to £25,000, and "favourable consideration" was also to be given for further transfers in excess of that sum.

In the event, it took years for British nationals to recover in Egypt what was left of their assets and to receive the first £25,000 sterling equivalent; that even now, is still awaited by some. The blocked accounts—since 1956—bear no interest, and can only be used, within strict limits, in Egypt, after obtaining the specific authorisation of the Egyptian Exchange Control.

The 1973 agreement only covered £15m. but if it had been operated effectively this amount would have been exhausted by now. Is it fair, therefore, that those who participated should now be expected to bear a further loss of well over 40 per cent on transfers which should have been effected or completed by now, for the sole benefit of the Exchequer?

The saving to the Exchequer resulting from the "new arrangements" in respect of amounts already assigned will be no more than £200,000 or £250,000 at most. In relation to the total annual expenditure of the nation, this amount can only be described as microscopic. It is especially cruel in the case of retired and needy small savers.

R. V. Mosseri,
203, Mountjoy House,
Barbican, E.C.2.

Under the financial agreement of 1959, Egypt received and immediately transferred £41m. out of U.K. sterling balances. Returnable private British assets in Egypt then stood at £257m.,

GENERAL

Monthly meeting of National Economic Development Council will include discussion on allocation of Britain's oil revenues.
Rail pay talks resume.
World Industrial Advertising Congress opens, Royal Lancaster Hotel, W.2 (ends April 7).
Mrs. Shirley Williams, Education Secretary, addresses meeting at Carahallon Public Hall, 8 p.m.
Mr. Patrick Duffy, Under Secretary of State for Defence for the Navy, visiting the U.S.
Lord Mayor attends luncheon with chairman of British Petroleum, Moor Lane, E.C.3, 1 p.m.
PARLIAMENTARY BUSINESS
House of Commons: Wales Bill committee stage.

To-day's Events

House of Lords: Debate on consumer representation in the nationalised industries.
Select Committees: Science and Technology. Subject: Discharge and filament lamps. Witnesses: GTE Sylvania Endura (Commons 10.30 a.m.). Science and Technology. Subject: Transverse flux induction. Witnesses: Electricity Council (Commons 4.30 p.m.). Expenditure: Social Services and Employment sub-committee. Subject: Employment and training. Witnesses: Merseyside County Council and District Councils (County Hall, Liverpool, 10 a.m.). OFFICIAL STATISTICS
Housing starts and completions (February).

COMPANY RESULTS

BICC (full year). Consolidated Gold Fields (half year). Phoenix Assurance (full year). W. H. Smith and Son (Holdings) (full year). Sun Alliance and London Insurance (full year). COMPANY MEETINGS
Anglo American Securities, Bucklebury House, E.C. 2, 4.35. George Armitage, Dewsbury, 11.15. Barclays Bank, Lombard Street, E.C. 4, 2.30. Carrington Viyella, Dorchester, Park Lane, W. 12. Derek Crouch (Contractors), Peterborough, 12. Grenfell Investment Trust, 11, Austin Friars, E.C. 4, 2.45. Donald Macpherson, Winchester House, E.C. 4, 12. Tassart Rutledge, Liverpool, 12.



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DIVIDENDS ANNOUNCED

Second half drop cuts GKN to £72m

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Financial Times Wednesday April 5 1978

Bank of Scotland rises 3.1% to reach £27.6m.

A 3.1 per cent increase in taxable profit from £26.77m to £27.59m is reported by Bank of Scotland for the year to February 28, 1978.

In the clearing bank operations net interest earnings were virtually unchanged, with the adverse effect of a reduction of 1.7 per cent in average base rate from 11.55 per cent to 9.85 per cent compensated for by the employment of greater resources mainly in the currency side of the business.

Commissions were higher but the increase did not match the rise in expenses. The outcome for the bank was a £1.4m fall in profit, the directors report.

The finance house subsidiary, North West Securities, increased its profit by £480,000 to £7.03m, while British Linen Bank, in its first accounts since it re-emerged to conduct the merchant banking business of the group, showed an improvement of £1.23m to £3.19m.

Net interest earnings suffered severely in the second half but commissions improved, and the impact of expenses was fairly evenly spread. The amount charged for bad debts in the first six months was more than 50 per cent of the total finally required and North West Securities contributed more in the second half.

to 10.94p (9.22p) per £1 share with a final of 2.44p.

The directors say that for comparative purposes the previous year's figures have been adjusted by the deduction of £1m additional pension provision before arriving at operating profit. The overall charge for pension in 1978 is slightly greater after making this adjustment.

Had the accounts been drawn up at the calendar year end, as with other clearing banks, the directors say they calculate the profit increase would have been of the order of 18 per cent.

The profit improvement by British Linen Bank came primarily from increased volume in all areas of its business, while profitability of term lending was enhanced by the lower cost of funds.

The advance at NWS came from higher turnover, lower cost of money and a continuing low level of bad debts. Its consumer division contributed about half its profit with the other half coming mainly from the commercial and corporate divisions, the directors state.

Renji will be treated as an associated company in future, following the acquisition of a 26 per cent holding by NWS at the end of its fiscal year, the directors add.

See Lex

Second half slowdown at James Dickie

A downturn in second half earnings from £22,613 to £19,980 has left pre-tax profit of James Dickie and Company (Drop Forgings) down from £402,500 to £396,633 in 1977.

Ransomes Sims expecting profit improvement

SALES PROSPECTS of most products of Ransomes Sims and Jerrard for 1978 are encouraging, and the directors will be disappointed if the results for the year do not show further improvement on the 1977 figures, Mr. Geoffrey Bone, the chairman, says in his annual statement.

He says that the company's ability to maintain profit margins remains uncertain while U.K. inflation continues at a higher rate than in the countries of its chief competitors.

There is some prospect of improvement in utilisation of its factories, which in another factor which will affect its ability to improve the return on capital and profitability.

The electric arc division of Ransomes has begun the year with an improved order book and production is being increased accordingly. In the grass machinery division prospects are bright.

The harvesting machinery division order book is, however, below last year's opening level and difficult trading conditions are expected. Last year sales of this division rose 38 per cent to £3.99m, but production was insufficient to meet demand, with the result that Ransomes could not offer acceptable deliveries for the 1977 season potato and sugar beet seasons.

Orders in the tilling equipment division are reasonable and while trading conditions are expected to be more difficult this year, directors are expecting to continue growing in Europe and to improve the 1977 performance.

Work has begun on installing electric melting facilities at its

founding, which will provide lower cost metals for the group. Sales of castings to outside customers reached £0.5m last year, and this practice will continue.

In Australia, prospects are promising for a continuation of the progress of 1977, while in South Africa there are no signs of imminent improvement.

Ransomes France is expected to reduce its loss through increased throughput of farm machinery and the recent takeover of its grass machinery importer/distributor.

During the year Ransomes properties in the U.K. were revalued with the £3.7m surplus transferred to reserves. A revaluation in Australia produced a £80,000 surplus.

A current cost statement included with accounts shows a reduction of the pre-tax profit of £22.23m (22.03m) to £354,000 (224,000) after an additional depreciation of £450,000 (£460,000) a cost of sales adjustment of £1.1m (£1.45m) and a gearing adjustment of £0.65m (£0.88m).

Accounts show a rise in net current assets from £5.5m to £12.45m with the reduction of bank overdrafts from £8.14m to £3.34m, a major component of the increase.

Meeting, Ipswich, May 5 at 5 p.m.

Metalrax sees substantial progress

In his annual statement Mr. John Wardle, the chairman of Metalrax (Holdings), says the group started the current year with extremely strong order books and first half results should be at record levels. He views the whole year with confidence and, although he feels it would be unrealistic to expect a repeat of last year's growth, he forecasts substantial further progress.

Thos Jourdan falls to £0.5m.

DESPITE A slight mid-term rise from £216,000 to £223,000 Thos Jourdan, investment holding company, finished 1977 with taxable profits of £300,227 compared with £507,890 for 1976. Mr. Archie McNair, the chairman, says in his annual statement with accounts that the company faced severe restraints in some countries and continuing trade recessions in most. Last year he said that expanding sales was going to be difficult. "It has been the side of recession is still running strong, but we are making headway."

Excluding W. Muncey and Co., which ceased trading during 1977, group turnover is shown as only slightly down from £4.62m to £4.55m.

Stated earnings per 10p share are 8.94p (7.94p) and the dividend is increased to 2.8875p (2.5p) with a final of 1.8865p net.

Sales of Mary Quant merchandise, upon which the group receives royalties, have again increased in terms of volume, but this has not been fully reflected in turnover, Mr. McNair states.

This discrepancy has arisen because there is a large element of overseas sales, and the strength of sterling has distorted the comparison of performance with 1976.

John Corby's sales again increased substantially, and further reorganisation of its methods has resulted in increased margins. Profits therefore improved considerably, and the chairman believes that the basis on which this company now operates, provides great scope for the future.

Midland Designing and Manufacturing started 1977 with a low order book, but traded well to the year with a reasonable profit, he says.

Despite very difficult trading conditions at home, Hemcol succeeded in increasing its share of the U.K. market significantly and made a useful profit. Export sales remained elusive, although it is hoped that the efforts being made will soon be rewarded.

Simplex found both trading conditions in its existing markets and expansion into new territories difficult. In these circumstances the chairman feels it did well to achieve substantial sales and profits, although both were disappointing in comparison with 1976.

The hoped for recovery at Muncey did not materialise and the Board therefore felt it prudent that the company should cease trading. This has now been done, the chairman says, and full provision has been made for all closure costs in an extraordinary charge of £27,172. This comprised: closure costs £28,943; loss on sale of property £31,613; loss on revaluation of property £30,993; £23,373 making £147,676; transfer from capital reserve of surplus on previous revaluation of properties £14,566; loss on revaluation of £24,500; £24,500 covered by the transfer from capital reserves of surplus on previous revaluation of properties; cost of overseas rights £22,102.

One factory has been sold and

contracts are due to be exchanged for the sale of the other.

Turnover Profit before tax Tax Net profit Extraordinary charge Available Dividend Final dividend Retained

As a result of a change in accounting policy relating to deferred tax the directors of Jourdan have decided to limit the provision concerning stock relief to a reasonable level, at £40,820 compared with £51,122. Had the full provision been made the transfer in the current year would have been £164,940 (£78,750).

A divisional analysis of turnover and pre-tax profits shows: royalties £0.26m, (£0.22m); and £0.24m, (£0.23m); marketing: £1.42m, (£1.55m); and £0.12m, (£0.10m); and general industrial £2.94m, (£3.38m) and £0.13m, (£0.19m).

At the year end there was a decrease in net liquid funds of £0.32m against a £0.28m increase. Meeting, Inn on the Park Hotel, W., on April 27 at noon.

comment

Thomas Jourdan anticipated an upturn in business from the oil-rich Arab and African markets, but this did not materialise during 1977, and profits slipped by 18 per cent. Cutbacks in industrial development in these countries meant a shortfall in budgeted levels of exports—down a fifth on the year to account for 44 per cent of total sales. Simplex (floodlighting equipment) mainly for the construction industry seems to have suffered most with sales 18 per cent lower. Elsewhere, Midland Designing (a third of profits) slipped slightly but this was more a function of higher costs to develop new markets than any slackening of demand for its principal product, the inner tube tyre snifter, which has firm markets in the third world. Meanwhile, royalties from sales of Mary Quant branded products continues to provide a steadily increasing income, and Corby should do well with its domestic trouser presses when consumer spending rises. At 38p the shares are on a p.e. of 3.8 while the yield is 12.3 per cent.

Authority recovers to £0.39m.

Operating loss of Authority Investments for the year to September 30, 1977, was reduced, excluding subsidiaries sold, from £225,436 to £118,006 and after a much higher profit on sale of investments of £314,970 against £55,183 profit emerged as £292,054 compared with a loss of £179,762 after tax of £4,940 (£9,311).

Operating loss of subsidiaries sold, was up from £24,580 to £147,611 and after a release of £4,440 on part of an exceptional provision for exchange loss on foreign loan repayable September 1978, compared with a debit of £55,623 last time, and an extraordinary debit for the year £24,141 (£20,894), profit for the year came out at £234,712 against a loss of £581,077.

Earnings per 20p share are shown as 3.96p (11.2p loss) and, as last year, there is no dividend—the last payment was a 0.1p net interim for the 1974-75 18 months.

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Bonus declarations

The London Life Association, an old-established mutual life company, has decided to introduce payment of a terminal bonus on with-profit contracts. For assurance this will apply when the policy becomes a death or maturity claim and on annuity contracts when the policy vests and the annuity or pension becomes payable.

Many life companies have been paying such terminal bonuses for many years and it is now part of the bonus system. But as Mr. A. K. Tudor, actuary and general manager of London Life, points out, that there have been a number of factors influencing the company's decision to make this change. Primarily, the unprecedented volatility in equity markets in recent years was felt to inhibit the practice used up to now of increasing the level of reversionary bonus by taking credit for unrealised capital appreciation.

But the company has also

improved its reversionary rates as well for 1977. On assurances and annuities it is lifted to £4.70 per cent of the sum assured (or basic benefit) plus attaching bonuses from £4.60 per cent in 1976. The terminal rate is fixed at 45 per cent of attaching bonuses with a maximum of 45 per cent of the sum assured. On simple bonus pension business, the rate is lifted to 25.30 per cent of the basic benefit from £7.70 per cent. The special bonus annuity will be 25 per cent of attaching bonuses. Improvements have been made in rates of reduction under the reduction of premium series. The terminal bonus will be 1 per cent of the sum assured for each complete year in force.

The intention is that terminal bonus rates will move to reflect changes in market conditions. They will be reviewed twice, a year in November and May.

The Scottish Amicable Life Assurance Society has declared substantial increases in its reversionary bonus rates for the three years to April 1, 1978. On ordinary assurances and deferred annuities the new rates are £4.25 per cent per annum on the sum assured or basic annuity and £3.35 per cent per annum on existing bonus additions. The rates at the previous triennial were £3.80 per cent and £4.80 per cent respectively and the latest interim rates were £4 per cent and £5 per cent respectively.

On Flexidrawdowns (Second Series) the bonus rate declared for the first time is £3.75 per cent of the sum assured and on Flexidrawdown and Superannuation contracts (also declared for the first time) it is 14 per cent of the basic benefit. On group pension contracts the bonus rate is £4.75 per cent on the bonus additions including past bonus additions.

The interim rates have, however, been pitched somewhat lower than these rates. On ordinary assurances they are £4.10 per cent and £5.10 per cent respectively. For Flexidrawdowns they are £3.75 per cent per annum of the sum assured and £8 per cent of attaching bonuses. For Flexidrawdown and Superannuation it is £4 and £5 respectively. The terminal bonus is unchanged.

Gresham Life Assurance Society, an associate company of N. M. Rothschild and Sons, has declared unchanged bonus rates for 1977. On the new series individual assurance contracts, reversionary bonus rate remains at £3.55 per cent of the sum assured and attaching bonuses—a rate first declared in 1975. On the old series the rates vary from £3.85 per cent of the sum assured to £7 per cent. On personal pension policies the reversionary bonus rate is kept at £3.40 per cent of the basic benefit and attaching bonuses.

The company is also maintaining terminal bonus rates, payable on death or maturity, at the same level. For assurances on the new series it is 20 per cent of attaching bonuses, a rate unchanged since 1974 when it was reduced from 25 per cent. On the old series the rate is £0.80 per cent of the sum assured for each policy year subject to a maximum of 25 years.

Extracts from the statement of Mr. Howard Hicks

(Chairman and Chief Executive)

Group trading profits before tax were £426,059 (£1,020,302). The increased final dividend of 6.8061p (6.1874p) per share is recommended since we do not believe that shareholders should be penalised because of a temporary setback in trading profits.

The capital investment market, which declined to an all-time low in 1976, appears to be recovering, although this revival came too late to affect the 1977 results. Confidence in the British economy has improved over the last six months, clearly illustrated by stronger sterling and much reduced interest rates. Providing this situation holds, the future can be viewed with optimism.

Activities abroad are continuing with further contracts secured in Holland, Belgium and the Middle East and we believe that these will become an ever-increasing part of the Group's activities.

The current year is progressing well with enquiries and confirmations at a level which, I hope, will result in a substantial recovery to our past levels of profitability.

The IDC Group Limited
Stratford-upon-Avon, CV37 9NJ Tel 0789 4288 Telex 311201
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Also at Brussels, Oslo, Caracas, Sao Paulo, Bahrain and Dubai.
the international designers and constructors

SOLD

Wednesday April 5 1978
and 1,337
WILLIAM UP TO 500
policyholders

Lesney adding to industrial side

BY ANDREW TAYLOR

The industrial interests of Lesney Products, best known for its matchbox range of toys, are being expanded with the purchase of Metal Castings Distributors, the British subsidiary of N.I. Industries in the U.S.—for £2.3m.

The purchase is conditional upon the deal not being referred to the Monopolies Commission.

Lesney, which is determined to increase its activities outside the toy field, is seeking to put up the same contribution to the industrial division of around 4 per cent to 20 per cent by 1981. It says that the MCD acquisition will lift this contribution to 15 per cent in the current year.

The acquisition will also extend the industrial division's existing zinc diecasting business—largely for consumer electrical goods—into MCD's aluminium diecasting activities which has the motor industry as a major customer.

The group is planning to spend £2m on modernising MCD's factory at Worcester, over the next three or four years, and capital spending on the plant may be around £0.5m in the current year.

MCD, with net tangible assets of £2.5m, in the last balance sheet, earned pre-tax profits of £427,554 on sales of £11.65m, last year—a more recent valuation made on behalf of Lesney put MCD net assets at nearer £3.6m.

The deal is being financed entirely from increased bank borrowings. The group's last accounts for the year ended January 30, 1977 showed that Lesney had a net cash surplus of £1.4m. Lesney's 1977 results for 1977/78 are expected very shortly. At the half-year pre-tax profits were £2.47m, compared with the previous first-half's £2.08m.

BENN BROS. DISPOSAL

The trade journals and directories publishing group, Benn Brothers, is negotiating the sale of its wholly owned subsidiary, the Press at Cumberland to the Allen Group publishers and printers.

Final details have still to be agreed but the likely price will be between £5 and £8 per share. Benn Bros. net assets are £3.3m, which would put the price between £16,000 and £24,000. The proposals would involve some departments being closed at Press, which incurred a small operating loss in the year to June 30, 1977. Its sales are less than 3 per cent of Benn's total turnover.

BRITAIN'S

Shareholders of Britain's have approved the issue of £1m, 5 per cent, convertible. Cumulative Redeemable Preference Shares, and the contract for the acquisition of the Worcester Paper Mill from Oxford University Press has been completed, with 2.5m Ordinary shares being issued to OUP.

Equity Capital for Industry has subscribed for the remaining 1,000,000 new Preference shares and has made a £500,000 12 per cent convertible loan to the company on the terms described in the circular written down allowance on motor vehicles.

FERRANTI PURCHASE

Ferranti has acquired Rubery Owen Karritzen, a subsidiary of the Rubery Owen Group. The Karritzen operation, with a 24m turnover in the last twelve months, manufactures materials handling equipment. Its products will be incorporated into the container handling division of Ferranti Engineering.

Ferranti believes the acquisition will create a much stronger U.K. industry more able to penetrate world markets against foreign competition from Europe, Japan and the U.S.

Combined sales of both companies total over 800 machines, which constitute 50 per cent of the world installed units. To maintain the U.K. share of the world market, Ferranti considers the acquisition a single viable unit to provide the strongest possible technical, marketing, after-sales and parts support capability.

NEB SUPPORT FOR W. CANNING

W. Canning has bought all the Ordinary shares of Hird Brown, a Bolton based electronics company, and has reached agreement with the National Enterprise Board to provide long-term finance for Hird Brown's expansion.

Consideration of £250,000 plus further payment based on profit performance.

The NEB has subscribed for £250,000 9 per cent Preference shares 1988 in Hird Brown and is providing that company with a £150,000 loan for five years. NEB has an option to convert part of its investment into not more than 20 per cent of Hird Brown's Ordinary capital.

DAVY EXPANDS FURTHER IN U.S.

Davy International, the engineering and construction group has announced that its wholly owned U.S. subsidiary, Davy International Inc., has acquired Halsey Engineers Inc. of California for around £1.1m.

Halsey Engineers is a private consultancy company providing engineering and construction services to a broad range of industrial clients. Davy has paid around £1m in cash with the balance due in about two years.

R. H. COLE

R. H. Cole has agreed to sell its holdings of 80 per cent of the capital of Dr. Beck, a specialist manufacturer of resins and electrical insulation materials, to Glasnost (G.E.) for £420,000 cash. Proceeds will be used in the development of Cole's continuing activities.

BODYCOTE

For £400,000 cash, Bodycote International, the Manchester-based protective clothing and textile processing group, has bought Polar Contract Motoring, a vehicle leasing company, in a deal, as well as extending the interests of Bodycote's financial services division, will also provide the group with additional tax benefits through the first year benefits of the new write-down allowance on motor vehicles.

P.D. WHARFAGE

The purchase of James Glover (Shoreham), and James Glover Transport, by PD Wharfage and Transport has been completed for an undisclosed sum.

Cadbury faces U.S. probe

The United States Federal Trade Commission is looking into the proposed deal under which an American subsidiary of the big Cadbury Schweppes food and drinks group plans to take over the U.S. confectionery concern Peter Paul through an agreed £58.5m (£31.4m) merger.

Mr. James Forbes, finance director of Cadbury Schweppes, said in London last night: "We look on this as a routine inquiry and we will be very pleased to provide, in conjunction with Peter Paul, anything that may be required."

Peter Paul yesterday stated that the Federal Trade Commission had started investigating the proposed merger. The Commission had asked for certain information about operations after the merger and was likely to seek further details shortly.

Peter Paul said it had no further information about the investigation or what action, if any, the Commission might take.

Following the announcement of the agreed deal on February 21, 1977, the initial consideration for both companies of £150,000 will be followed by a delayed payment, not exceeding £2,000, secured to the pre-tax profits earned by the two companies in 1978.

Both payments will be satisfied by the issue of Tebbitt Ordinary shares. After completion, and after the issue of the initial consideration shares, Tiger will hold about 15 per cent of the equity of Tebbitt.

To provide any additional working capital required, the Board of Tebbitt has decided to offer, by way of Rights to members on the basis of £1 of loan stock for every 25 shares held, £240,000 of 15 per cent Conv. Unsecured Loan Stock 1983. This will be convertible in 1979 at 15p, 1980 at 17p and 1981 at 20p.

Tape began trading in August 1977 and for five months period ended December 31, 1977, it showed a loss of £652, after paying management charges of £21,000 to Tiger. For 1977 Seal made a net loss before tax of £24,100.

Net tangible assets of Tape as at the end of 1977 amounted to £127,101 and for Seal to £10,680.

Following completion, Mr. Robert Knight, chairman of Tiger, chairman of George S. Stuart and Son since last November, will be made a director of Tebbitt. He will work on a part-time basis with a view to co-ordinating and developing the activities of the group.

CONTROL SALE TO ESTATES & GEN.

Control Securities, the 60 per cent owned subsidiary of a Swiss investment trust, has sold its 50 per cent holding in S.E.E. Developments (Bedford), to Estates and General Investments.

At the same time Control has purchased from SEED Yensen, a small housebuilding company, Ladbury Estates, an industrial estate developer, and Keldie Properties, a property company with investments in the West Midlands and Herefordshire.

The total cost to Control is £122,217. The net assets acquired are considered by its directors to be in excess of that figure.

The company has also provisionally agreed with Labofund AG and Kophia Foundation to surrender for £25,000 cash its right to participate to the extent of 20 per cent in any profit from sale of the Exchange, Cardiff, effected before January 18, 1988, or from a revaluation if no sale takes place by that time.

Shareholders will be further informed in due course, when notices of a general meeting to seek their approval will be forwarded.

JOKAI TALKING WITH LONGBOURNE

Jokai Tea Holdings and Longbourne Holdings, two members of the controversial Camellia Investments grouping, have started merger talks.

If the proposed scheme of arrangement goes through, it will be the end of a long history of crossholdings between the two companies. In July, 1975, Jokai's stake in Longbourne was just under 30 per cent, and since then it has gone to 30.4 per cent. Meanwhile, Longbourne's stake in Jokai reached 15 per cent in October, 1976 and by September, 1977 got up to 23 per cent.

Jorahant Holdings, another company in the group, was credited with a 36 per cent stake in Longbourne at the last count in December, 1977.

Jokai and Longbourne recently invested in an outpost of another Camellia company, Each bought a 5.1 per cent stake in Soromans which is 42.8 per cent owned by H and C group companies.

CREST BUYS FROM QUALITY INNS

Crest Hotels, a subsidiary of Bass Charrington, is to take over a 200 room quality at Watlington, Germany, from the U.S. group Quality Inns. Quality said that it had decided to accept Crest's offer as a result of the effect of currency swings on its German earnings.

Mr. Joseph W. MacCarthy said that strength of the Deutschmark against the Dollar had cost the group "paper losses" of more than £1m over the past two years. Terms of the deal were not disclosed.

Crest already has interests in Europe—including Germany—under its EuroCrest banner and generates a large slice of its trade providing conference and other facilities for businessmen.

GOUGH/ELLIS

Gough Brothers announces that acceptances have now been received in respect of more than 80.3 per cent of the shares in Ellis and Co. (Richmond) for which the offer was made. The offer became unconditional on March 23 as all the conditions attaching to it were fulfilled.

The Directors intend to compulsorily acquire the outstanding shares in Ellis in due course.

TEBBITT TO BUY TIGER COMPANIES

Tebitt Group has conditionally agreed to acquire the capital of Tape Projects and Self-Seal Tape from Tiger Securities. An initial consideration for both companies of £150,000 will be followed by a delayed payment, not exceeding £2,000, secured to the pre-tax profits earned by the two companies in 1978.

Both payments will be satisfied by the issue of Tebbitt Ordinary shares. After completion, and after the issue of the initial consideration shares, Tiger will hold about 15 per cent of the equity of Tebbitt.

To provide any additional working capital required, the Board of Tebbitt has decided to offer, by way of Rights to members on the basis of £1 of loan stock for every 25 shares held, £240,000 of 15 per cent Conv. Unsecured Loan Stock 1983. This will be convertible in 1979 at 15p, 1980 at 17p and 1981 at 20p.

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Following completion, Mr. Robert Knight, chairman of Tiger, chairman of George S. Stuart and Son since last November, will be made a director of Tebbitt. He will work on a part-time basis with a view to co-ordinating and developing the activities of the group.

S. & W. BERISFORD

S. and W. Berisford, the British based international commodity trader, has acquired Jarman and Son Management, the wool cleaning group, for £12m. Of this £435,489 has been satisfied by cash and the remainder provided by the issue of 782,394 Berisford Ordinary shares.

GLOBE/PHOENIX

Discussions between Globe and Phoenix Gold Mining Company and Phoenix Prince Gold Mining in connection with an offer for Phoenix Prince are still continuing and this has caused a delay in sending an offer document to shareholders.

BROCK'S ALARMS

Automated Security (Holdings) has completed the acquisition of Brock's Alarms and other associated companies in accordance with the circular sent to members on January 5, 1978.

GRINDLAY BRANDTS

Grindlay Brandts, a subsidiary of Grindlays Bank, has sold its shareholding in A. L. Sturge (Holdings), which will result in the present working shareholders owning 100 per cent of the latter company. Their representative, Mr. D. E. McKinnon, has resigned from the Board.

SHARE STAKES

Table Green—R. Gymer, director, has sold 25,900 shares. Bambergers—Pearl Assurance holds 485,000 shares (5.017 per cent.). Barnum Mines—Davis Investments (Jersey) holding is 3.17m. shares (23.1 per cent.)—previously 3m. shares. Deane Holdings—River Plate and General Investment Trust increased its holding to 250,000 shares (6.05 per cent.). Fraser Ansbecher—J. M. Burton, director, has disposed of 400,000 shares leaving holding 25,000. Johnson Matthey—Johannesburg Consolidated Investment holds 3,320,200 shares and Prudential Assurance 855,227 (both over 5 per cent.). David Dixon and Son Holdings—H. Turpin, director, has acquired 2,000 shares making total 137,500 (9.46 per cent.). Gibbons Dudley—Pearl Assurance holds 5,011 per cent of shares. Liden Holdings—Prudential Assurance now states that the 51,950 shares reported to have been sold are in fact on loan to the market and Prudential retains its beneficial interest. Prudential's holding is unaltered at 442,000 shares. Eraby Leslie—British Empire Securities and General Trust holds 14,919 of 5.6 per cent. Preference shares. Home Counties Newspapers—Rome Country Newspapers has disposed of 10,000 shares reducing interest to 1,437,000 (£7.48 per cent.). Ratners (Jewellers)—H. Samuel has bought 100,000 shares making total 2,368,000 (19.708 per cent.). Tern Consultancy—Mr. R. Lawson, director, has acquired 53,000 shares making total 237,100 (16.94 per cent.). Shares acquired as a result of winding up a discretionary trust. Avana Group—Sir Julian Hodge has bought 125,000 shares.

Cautious optimism at Lex as business share grows

NOT ONLY is Lex Service Group benefiting from the economy but it is also tending to do better in its share of business and the directors are cautiously optimistic, Mr. Trevor Chinn, the chairman, said yesterday.

Any increase in consumer spending is likely to have a major impact on the passenger car market which is already running well ahead of last year. Volvo registrations, for example, for the first two months of the current year are at their highest ever level for that period, Mr. Chinn says in his annual statement.

The company's transportation activities would also benefit from an increase in the volume of retail sales and an upturn in industrial output and in industrial investment would directly benefit its commercial vehicle and fork lift truck businesses, he comments.

The London hotel market remains buoyant although tourism in the de-luxe sector may not reach the peaks of 1977. The company's airport hotels, The Heathrow and The Gatwick Park Hotel, which will be opened during the summer, should gain from the forecast increase in traffic flying in and out of London's airports.

Although there is now some slackening in the growth of the U.S. economy each of the company's hotels there expect to show improved profits, particularly those in Chicago and Houston which are still improving from a low base.

In the year to January 1, 1978, the company's hotel interest made a significant contribution to profit for the first time, with all six hotels trading profitably for the full 12 months.

On group sales up from £281.5m to £299.8m, taxable profit for 1977-78 climbed to a record

£12.48m. (£7.84m.)—as reported on March 10. The net total dividend is raised to 3.465p (2.9248p) per 25p share on capital increased by a rights issue.

On a current cost basis along the Hyde guidelines, profit was £9m. after additional depreciation of £3.7m. and, extra cost of sales of £3.3m. and including a gearing adjustment of £3.5m.

At year end working capital was up £5.04m. (£399,000). Extra overcosts were lower at £529,000 (£1,571m.), short-term debt was £202,000 (£109,000) and long- and medium-term debt was down at £44.3m. (£48.35m.).

Capital commitments amounted to £4.31m. (£3.8m.) of which £774,000 (£394,000) had been authorised but not contracted.

An analysis of sales and profit by activity shows, with 2000s omitted, passenger car distribution and servicing £185,602 (£159,446) and £10,355 (£3,552); commercial vehicle distribution and servicing £48,827 (£39,016) and £296 (£724); transportation, freight handling and vehicle leasing £21,883 (£14,339) and £1,981 (£1,647); fork lift truck and crane hire £14,145 (£9,862) and £2,839 (£1,990); and £2,880 (£1,546) overcosts hotels £12,973 (£13,441) and £829 (£46) other £2,878 (£6,376) and £163 (£110); and surplus from property £146 (£194). Less net interest of £3,004 (£6,417) and group overheads £1,515 (£587).

Appleyard on target at £1.47m.

IN LINE with the forecast in February pre-tax profits of Appleyard Group for 1977 rose slightly from £1.37m. to £1.47m., on turnover of £89.68m. against £77.34m., despite a second half downturn from £0.64m. to £0.52m. At the halfway stage directors were confident that the full year's profits would be at record levels.

The directors now say that the current year has started well with the group's British Leyland car sales rising each month and the three recently acquired Ford main dealerships making a very useful contribution to the overall profit.

Over 55 per cent of total group profit is now coming from Rolls-Royce, Ford, commercial vehicles, agricultural engineering, budget rent-a-car, fuel oil distribution, credit finance, and contract hire. The balance is from the sale and service of British Leyland cars, the said.

After full provision for deferred tax, earnings per 25p share are shown as 12.29p (11.6p). As known, the dividend for the year is increased to 4.914p (4.44p) net per share with a second interim of £3.29p. The directors say that in the light of budgets for the current year they intend to recommend a total of 6.25p for 1978.

GREENFIELD MILLETTTS

Mr. Richard I. Greenfield, chairman of Greenfield Millettts, the leisurewear and camping group, told shareholders at the AGM that the first half figures should match those of a year ago—"when trade was quite exceptional". He said that the group looked forward to greater second half growth and 1978.

Henderson-Kenton extends discount scheme

Furniture retailers Henderson-Kenton has decided to extend the scheme under which shareholders are entitled to a 10 per cent discount on purchases to the unit-holders of trusts which have a substantial stake in the company.

For a trial period of one year, unit-holders in trusts which have at least 20,000 of Henderson-Kenton's shares will be allowed a 10 per cent discount on items not already reduced in the company's stores, which trade under the name Kentons in England and Henderson in Scotland.

Chairman Mr. David Hyman said yesterday that relatively few shareholders had taken advantage of the discount scheme, which was made available to individuals with more than 100 shares at the end of 1976. In extending the scheme the company had in part been influenced, he said, by the fact that the company's dividend payments are several times covered by profits, and while the Board would like to recommend

Advance at Harrison & Sons

Full-year turnover expanded from £15.83m. to £17.68m., of which exports increased to nearly £3.25m.

The directors say they are determined to strengthen the group's position and expect to maintain the advance now reported.

After tax of £59,000 (£55,000), minorities and Preference dividends, stated earnings jumped from 1.75p to 10.24p per 25p share. A final dividend of 2.705p raises the total to 4.196p (3.757p) net.

1977 1978
Turnover 17,680 15,833
Trading profit 631 693
Interest 523 693
Pre-tax profit 309 206
Tax 39 53
Net profit 270 153
Net profit credit 3 81
Minorities 2 3
Dividends 105 95
To reserves 140 209
*Adjusted for HODs. *Debit. \$70m reserves.

TAXABLE PROFIT OF Harrison & Sons

The taxable profit of Harrison & Sons, the printing group, advanced from £106,000 to £209,000 for 1977, after a higher dividend of £130,000, against £2,000.

Zurich and back in a day. From Gatwick

British Airways are now operating 6 flights a week from Gatwick to Zurich. They leave daily at 0800 (except Sundays), arriving Zurich 0930. The return flight leaves 2000 (except Saturdays), arriving home 2125. So now if you've business in Switzerland you can fly from either Gatwick or Heathrow. And be there and back in a day. Ask your Travel Agent or British Airways shop for details.

British airways
Fly the flag, feel at home.

The British Bank of the Middle East

A Member of The Hongkong Bank Group

"There is continuing growth to report"

Highlights from a statement by the Chairman, Angus Macqueen, CMG.

The Year's Results and Capital Changes

The Bank's published profits of \$6.5m are satisfactorily higher than 1976. The Directors recommend transferring \$1m to published reserves, and a further \$4m from inner reserves to published reserves, bringing them to £25m. A dividend will be made at our Annual General Meeting to capitalise a sum of £2.5m from the reserves making Capital and Reserves £22.5m respectively. Costs in the Middle East remained very high. Nevertheless our branches were able to absorb these costs, and, with certain exceptions, to increase profits.

The Balance Sheet

There is continuing growth to report. Current deposit and other accounts rose by about £127m (over 8%). Cash and short term funds have risen by some 13% and represent about 30% of our liabilities. A further 11% is represented by time deposits with other banks. Trade bills and advances to customers have risen by 11% and 15% respectively. Advances now represent 50% of our deposit base. Guarantees, acceptances and documentary credits have been reduced by 16%.

The Middle Eastern Scene

In Lebanon much has been done to improve conditions in and around Beirut but confidence is slow to return for it is clear that fundamental problems have not been solved.

In the Arabian Peninsula and the Gulf, where the Bank's main business originates, 1977 was a relatively uneventful year.

The growing power of Saudi Arabia and its responsible use by King Khalid and his Government have helped counterbalance discord among Arab states and the political situation in the Eastern Mediterranean.

The "North/South dialogue" remained as becalmed in 1977 as it was in 1976 and, partly as a result of the slow economic revival of the industrial nations, increases in crude oil prices were kept to a minimum. However it would be rash to assume that much relaxed conditions will last through 1978.

The startling growth of imports into the Middle East has now definitely slackened, raising the question as to the value of some of the industrial port developments now in progress. But perhaps the main problem in 1977 was inflation which is serious in the oil producing countries and only a little less so among their poorer relations.

Regional Banking Activities

Despite somewhat unfavourable conditions our Tunisian associate, Banque Internationale Arabe de Tunisie has continued to develop and increased its deposit base substantially.

Provisions made in 1976 to cover potential losses in Lebanon were more than adequate, and reconstruction of our office in Bab Edness is well in hand. In Saudi Arabia we have completed all formalities to incorporate our branches into a banking organisation established in the Kingdom as determined by the authorities and a new bank, The Saudi British Bank, will come into being. Operations at our existing branches continue at a high level.

The Staff

The contribution made by the staff in the U.K. and abroad to the successes of the year cannot be underestimated.

The Chairman's Statement is contained in a Report and Accounts booklet obtainable from the Secretary at Head Office.

Branches in:

- Bahrain • Djibouti • India • Jordan
- Lebanon • Oman • Qatar • Saudi Arabia
- Switzerland • United Arab Emirates
- Yemen Arab Republic

London Main Office

London EC2P 2LA
Telephone 01-638 2366 Telex 884293

and at

Falcon House, Curzon Street,
London W1Y 8AA
Telephone 01-493 8331 Telex 27544

TRANSPORT DEVELOPMENT GROUP IN 1977

- * Strong profit growth, from £14.76 million to £18.08 million.
- * Road haulage profits maintained despite intensely competitive conditions; many costs increased above the rate of inflation
- * Storage contributed almost £2 million by way of additional profit. Cold storage in particular had a very good year.
- * Results of the plant hire companies more satisfactory than at one time expected.
- * Industrial removal and engineering companies performed well even though not at full stretch.
- * Recovery in profits of the exhibition companies continued.
- * Sound results from the reinforcement companies bearing in mind the difficult trading background.
- * Warehousing and cold storage companies in the Netherlands produced excellent profits; road haulage companies affected by lack of traffic.
- * Modest contribution from the French companies. Refrigerated transport undertaking acquired at Rouquefort.
- * Australian companies again produced increased profits due to a very high level of activity in the first six months. Falling away in activity as the financial year ended.

Full report and accounts available from the Secretary, Transport Development Group Ltd., Kingsgate House, 66-74 Victoria St., London SW1E 6SR

	1974	1975	1976	1977
Turnover	£'000	119,344	129,384	180,547
Profit before tax	£'000	13,556	12,122	14,760
Net assets	£'000	88,784	78,209	90,058
Return on cap. employed	%	21.3	17.2	18.2
Earnings	Pence per share	5.4	4.8	5.8
Dividends	Pence per share	3.7	4.0	4.4
Net assets	Pence per share	39.6	42.5	48.9

HAULAGE • STORAGE • REINFORCEMENT • EXHIBITIONS

INTERNATIONAL FINANCIAL AND COMPANY NEWS

NORTH AMERICAN NEWS

Pabst expecting sharp decline in first quarter

TREASURER of Pabst Brewing Co. Mr. Jay B. Pieper testified in a hearing on the Wisconsin Commissioner of Securities that Pabst net earnings for the first quarter of 1978 were estimated to be approximately \$1.9m. or 22 cents a share, compared with net earnings of \$6.8m. or 80 cents a share for the similar period of 1977.

The estimate was made at a hearing on APL Corporation's proposed takeover of Pabst through purchase of 52 per cent. of the brewer's stock.

Mr. Pieper did not explain the sharp drop in estimated first quarter earnings, though a number of factors have been suggested as being responsible for

the steep decline. The year ago quarter was "exceptionally good," in part reflecting some buying in anticipation of a strike. Also labour and materials costs have been rising faster than selling prices.

Mr. Pieper told the state's Security Commissioner that Pabst has obtained short-term lines of credit but that a larger amount of long-term loans would be needed to keep the company financially healthy. He added that such financing would be difficult to obtain if APL gains control of the company.

At the end of March Pabst had \$7m. of cash on hand, down from \$38.5m. a year earlier. Mr. Pieper said he noted that lines of credit for \$5m. each had been obtained

from the Marine National Exchange Bank of Milwaukee, the First National Bank of Chicago and Manufacturers Hanover Trust of New York.

The Marine Bank credit was made available on the condition that Pabst's management would not be changed.

Mr. Arthur Lindemann, of the auditing firm Price Waterhouse, told the commissioner that if APL issued the debentures necessary to gain control of Pabst, APL would not have enough money to pay the interest on the debt. APL proposes to offer \$26 principal amount of 10 per cent. subordinated debentures plus \$2 in cash for each Pabst share up to 4.1m. shares.

Goodrich in deal with Portuguese

R. F. Goodrich has signed a technical assistance agreement with Fabrica de Pneus Fapabol S.A. of Portugal, reports AP-DJ from Akron. Goodrich will supply technology and production advice on all Fapabol products including bias-ply and radial tyres. Fapabol will distribute Goodrich tyres in Portugal.

STP-Esmark

STP and Esmark have received letters from the U.S. Justice Department's Antitrust division requesting information concerning their previously announced merger agreement, reports Reuters. The two companies last month agreed on a merger under which STP would become an Esmark unit. Esmark said it would pay \$22.50 for each of STP's 5.2m. shares.

Banking purchase

The Permanent, which is the parent company of Canada Permanent Trust and of Canada Permanent Mortgage, has completed its purchase, for \$210,000, of control of its banking subsidiary in the U.K., Canada Permanent AF—now to be called Canada Permanent Trust (U.K.), writes Terry Byland. Permanent already held over 30 per cent. of the subsidiary, and agreed earlier this year to take up the option on a further 20 per cent. stake then held by AFI Group.

Southern slides

Southern Company the Atlanta-based utility concern reports a 24 per cent. fall in pre-tax earnings for the first two months of 1978 to \$35.4m. or 26 cents a share compared with the like period last year. For the full year however the company managed a 19 per cent. rise in profit at \$1.86 a share against \$1.77 on sales 17 per cent. ahead at \$2.7bn. AP-DJ reports from Atlanta.

Jewel-Skaggs

Jewel Companies, the Chicago-based food retailer has reached an agreement in principle with Skaggs Companies, a Salt Lake City-based operator of drug stores for a combination of the companies on a tax-free basis, AP-DJ reports. Skaggs stockholders would receive one share of a new company to be called Jewel Companies Inc. for each share of Skaggs.

Midwest Exchange to report heavy losses on operations

CHICAGO, April 4

The Midwest Stock Exchange, second in the U.S. to the New York Stock Exchange, last year automated trading that could seriously make the exchange a trading volume of \$3.9bn. expects to report a large loss for 1977 and is laying off some 300 of its 750 employees. The price of a seat on the exchange has fallen to \$175, from \$30,000 in the late 1960s.

Last December, Mr. Michael E. Tobin, under pressure from the membership, resigned as the Midwest's president. While opinions vary regarding the Midwest's plight, a senior partner in a Chicago brokerage house and former chairman of the exchange says: "I think there is a strong possibility that the Midwest won't be around in 10 years."

The Midwest and the six other active U.S. stock exchanges—the New York, American, Pacific, Philadelphia, Boston and Cincinnati—face an uncertain future as a result of recent government moves to restructure the securities industry, particularly in the planned creation of a central, or national, securities market. This would permit all investors and their brokers to execute transactions in whatever market offers the best price for a particular security. A number of the regional, or non-New York, stock exchanges could fold in the new competitive environment, and even the New York Stock Exchange, the New York Stock Exchange, or "Big Board," and the American AP-DJ

Beker accounts queried

BY JOHN WYLES

NEW YORK, April 4

BECKER INDUSTRIES' auditor, Arthur Andersen and Co., has questioned the carrying value of virtually all of the company's assets in the United States, West Germany and Italy.

This qualified opinion on the company's 1977 financial statement was revealed by Beker yesterday that the same time as it reported a net loss for the 1977 fourth quarter of \$31.3m., compared to a \$6.6m. deficit in the previous year's fourth quarter.

The chemical and fertilisers manufacturer also said it was doubtful that it would be able to meet revolving credit, and term loan payments due to a

group of eight banks later year.

Arthur Andersen's qualification of the company's accounts also asserted that the company's operations "will be significantly affected by the company's debt to its lenders and to its required loan repayments." Continuing operations, joint ventures, and asset disposition. Beker, which has not disclosed the book value of the company, questioned by the auditors, stated that it had violated certain covenants of both its German loans. Its current debt in the U.S. total \$33m. and \$10.7m. in Germany, \$85.9m. of long-term debt, been reclassified as current.

Coal strike cuts Chessie

CLEVELAND, April 4. CHESIE System, the railway holding company reports a first quarter net loss of \$66.9m., up from the year-ago figure of \$7.4m. Revenue for the latest period was \$355m. against \$316m.

Chairman Mr. Hays T. Watkins blames the coal strike and the tough winter, saying that if it had not been for these factors, the company would have had a profitable first quarter. AP-DJ

Corning Glass earnings slip

NEW YORK, April 4. CONSOLIDATED net income Corning Glass Works for first quarter slipped from \$1.22m. to \$1.13m., or from \$1.36 to \$1.13 per share. Mr. Amory Hough Jr., chairman, said that first quarter earnings were down during the first four weeks of the quarter. Business rebounded strongly in the last eight weeks. Sales for the quarter rose from \$269.4m. to \$277.4m. AP-DJ

Brokers back Litton shares

BY TERRY BYLAND

SIGNIFICANT long term attractions are seen in the shares of Litton Industries by two major Wall Street stockbrokers. Both Merrill Lynch and Dean Witter have examined the prospects for the outcome of Litton's unsettled claims on Naval shipbuilding contracts by its subsidiary Legals Shipbuilding, which is currently seeking an adjustment of \$1.1bn. to contract ceiling prices in a long standing dispute about replacing an amphibious assault vehicles (LHA) and destroyers.

Merrill accepts that the contracts may remain unsettled and could result in a substantial one-time write off. But the stockbroker believes that such a settlement would ultimately benefit Litton by improving cash flow at Legals, eliminating litigation costs and, by removing what it describes as a "substan-

tial negative" overhanging the stock.

Dean Witter sees a strong likelihood of an out of court settlement of the company's claims, within the "relatively near future."

On the basis of its survey of Litton's outlook, Merrill forecasts earnings for 1978 of \$1.70 a share, with \$2.00 to \$2.25 a share in prospect next year.

However, since the claims on the Naval contracts remain unresolved at present, Merrill goes no further for the present than to predict that the shares will perform about in line with the overall market.

For 1977, Litton disclosed earnings of \$1.40 a share on sales of \$3.44bn.

Merrill expects its forecast for 1978 to be borne out by return to profitability at Sweden, the principal business systems and equipment group and by earnings gains at Western Geo-

physical, which operates in the field of professional services and equipment for the gas and oil exploration industries.

The defence, commercial and marine systems division, which incorporates Ingalls and in 1977 turned in around \$1.2bn. out of \$3.4bn. total revenues, has seen many refinements in operations recently, and Merrill expects this process to continue. The firm expects Litton to withdraw from its more cyclical operations in this division, or to counter-balance such cyclical areas by adding product areas with greater potential for growth.

While at the same time possibly withdrawing from unprofitable areas.

Merrill's review ends with the comment that Teledyne, owner of some 25 per cent. of Litton's outstanding stock, has indicated that the shares are an investment.

Standard Oil confident of growth

NEW YORK, April 4

STANDARD OIL (Indiana) is confident it can maintain past earnings growth and rate of return, chairman Mr. John E. Swearingen said today. Since 1960 earnings have increased at an annual compound rate of 12 per cent.

Higher prices expected for oil and gas in the future will help sustain growth in profits, Mr. Swearingen declared. Inflation of costs will be a factor, but on

the whole we believe higher prices will bring our company higher earnings."

The company's current objectives are a 13 to 15 per cent. return on equity and the payment of 35 to 40 per cent. of earnings in dividends. In 1977 the company earned \$1.01bn. or \$6.90 a share—up 14 per cent. on the previous year. Capital spending in 1978 will total \$2.3bn. compared with

\$1.9bn. last year, of which \$1.1bn. will be spent on exploration and development in the U.S. compared with \$780m. previously, the chairman added.

U.S. development spending will be concentrated in the Williston basin, North Dakota, and the Michigan basin, together with the Appalachians, where the company recently made a significant gas discovery.

EUROBONDS

Big discount for Mexico

BY MARY CAMPBELL

BOTH dollar and D-Mark sectors were quiet yesterday. The DM250m. issue for the United Mexican States was quoted at a discount of 2.33 points in first time trading. This is large by the standards of the D-Mark foreign bond market, as in other markets, but was generally expected by the market because of the tightness of the terms.

In the sterling sector, prices were also more or less unchanged. Interest-to-day will focus on the Gestetner deal, which is expected to trade for the first time.

In the yen bond market, interest has been stirred by the fact that the American company Sears Roebuck is considering issuing yen bonds via Nomura Securities. If it materialised, it would be the first such issue by a foreign company.

It seems that no final decision has been taken by the company.

but that there is no legal bar to such a move.

The possibility of a Japanese yen issue for a foreign corporate borrower has been eased by an April 1 change in Japanese tax rules.

Japanese securities sources said yesterday that there is not even a legal requirement for companies to collateralise bond issues—that a simple negative pledge putting the securities on the same rank with already outstanding debt would satisfy Japanese regulations.

However, they noted that it has been customary in Japan for Japanese companies to provide collateral for their bond issues, and that the absence of such collateral might reduce demand for bonds.

The next Swiss foreign bond issue will be for the Liechtenstein-based company Hilti. It has been taken by the company.

PETERS STORES LIMITED

RETAILING LEISURE WEAR, LEADING BRANDS OF JEANS, CASUAL WEAR, INDUSTRIAL CLOTHING, FOOTWEAR, PROTECTIVE CLOTHING, CAMPING & SAILING EQUIPMENT—FASHION CLOTHING FOR YOUNG PEOPLE.

	26 weeks to 24.12.77	26 weeks to 25.12.76	52 weeks to 25.12.77
Turnover	£3,347,561	£2,735,137	£4,894,434
Profit before Taxation	384,363	121,689	149,073
Taxation	224,000	63,000	97,207
Profit after Taxation	160,363	58,689	51,866
Earnings per share	5.0p	1.8p	1.8p

- The Directors have declared an Interim Dividend of 1.0p per 10p ordinary share (1976: 0.3p) payable on the 30th May 1978 to shareholders on the register as at the close of business on the 28th April 1978.

- As forecast in the annual report, a substantial improvement was made in this half year and the Interim Dividend equals the dividend paid for the whole of last year.

- Whilst sales continue to be ahead of last year, we must remind shareholders that the bulk of the company's profits arise in the first half of our year. However, we feel that if existing trends are maintained our profitability should continue to increase.

4th April 1978

J. P. Gould, Chairman



\$75,000,000

Golden Eagle Indonesia Limited

a wholly owned subsidiary of Ulramar Company Limited

Eurodollar financing for the Badak Liquefied Natural Gas Project

FINANCING MANAGED BY:

MORGAN GUARANTY TRUST COMPANY OF NEW YORK, Agent

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UNITED CALIFORNIA BANK

BARCLAYS BANK INTERNATIONAL LIMITED

EUROPEAN AMERICAN BANKING CORPORATION

MORGAN GRENFELL AND CO. LIMITED

UNION BANK OF SWITZERLAND

This announcement appears as a matter of record only.

March 1978

مكاتب العمل



ASSETS (M\$ 000)	1977	1976
Cash in banks, money at call and short notice	1,316,143	353,836
Loans and advances	1,129,294	1,016,283
Bills receivable	91,978	70,616
Treasury Bills and Government Securities	526,640	623,650
Other Investments at cost	81,501	35,186
Land, building and other assets	67,950	68,777
Total assets	3,213,506	2,168,348
CAPITAL AND LIABILITIES (M\$ 000)		
Authorised capital	200,000	200,000
Issued and paid-up capital	85,000	40,000
Reserves and balances of unappropriated profit	32,801	25,470
Deposits (demand, savings, fixed, etc.)	2,777,219	1,954,022
Deposits and balances of agents and banks	188,612	45,725
Bills payable and other liabilities	129,874	103,131
Total capital and liabilities	3,213,506	2,168,348

Branch	Subsidiary and Representative Office	Representative Office
LONDON 64, Mark Lane, London EC3P 3EA. Tel: 01-4882721	HONG KONG Bungiputra Malaysia Finance Limited, 24th Floor, American International Tower, 16-18 Queen's Road Central, Hong Kong. Tel: 5-249105	TOKYO Japan Press Centre Building, 2-3-1 Uchisaiwai Chiyoda-ku, Tokyo. Tel: (03)502-1591

22nd March, 1978



Limited

ABN Finance <i>Limited</i>	Asia Pacific Capital Corporation <i>Limited</i>	ASIAC-Asian International Acceptances & Capital <i>Limited</i>	Ayala Finance (H.K.) <i>Limited</i>
BA Asia <i>Limited</i>	BCCI Finance International Ltd. <i>Limited</i>	BNP Finance (Hong Kong) Ltd. <i>Limited</i>	BT Asia Limited (A Member of the Bankers Trust Group)
Banpuatra Merchant Bankers Berhad <i>Limited</i>		Credit Lyonnais Hong Kong (Finance) Ltd. <i>Limited</i>	Daiva Securities (H.K.) <i>Limited</i>
DBS-Daiva Securities International <i>Limited</i>	The Development Bank of Singapore <i>Limited</i>	Hankow Pacific <i>Limited</i>	Hill Samuel Pacific <i>Limited</i>
IBJ Finance Company (Hong Kong) <i>Limited</i>	Indonesian Asia <i>Limited</i>	Inter-Alpha Asia (Singapore) <i>Limited</i>	International Credit Alliance Ltd. <i>Limited</i>
Jardine Fleming & Company <i>Limited</i>	Kidder, Peabody & Company <i>Limited</i>	Korea Kuwait Banking Corporation <i>Limited</i>	Kowloon Pacific Finance Company <i>Limited</i>
Manufacturers Hanover Asia, <i>Limited</i>	Merrill Lynch International & Co. <i>Limited</i>	Morgan Guaranty & Partners <i>Limited</i>	New Court Merchant Bankers <i>Limited</i>
New Japan Securities International (Hong Kong) Ltd. <i>Limited</i>	The Nihko Securities Co. (Asia) <i>Limited</i>	The Nippon Kangyo Kakumori (Asia) <i>Limited</i>	
Nomura Europe N.V. <i>Limited</i>	Nomura International (Hong Kong) Ltd. <i>Limited</i>	Okeana International (Asia) Ltd. <i>Limited</i>	Orion Pacific <i>Limited</i>
Saeedn Merchant Banking Corporation, Seoul <i>Limited</i>	J. M. Sassoon & Co. (Pte.) Ltd. <i>Limited</i>	SBC Finance (Asia) <i>Limited</i>	Schroders & Co. (London) <i>Limited</i>
Singapore International Merchant Bankers Limited <i>Limited</i>		Somabhai & East Asia <i>Limited</i>	Taipei Koko Finance Hong Kong <i>Limited</i>
Tokai Asia <i>Limited</i>	Tokyo Finance (Asia) Ltd. <i>Limited</i>	Tokai International Finance <i>Limited</i>	URAB-Arab Japanese Finance <i>Limited</i>
United Chase Merchant Bankers <i>Limited</i>	Wako International (H.K.) <i>Limited</i>	Wardley <i>Limited</i>	Yamada International (H.K.) Ltd. <i>Limited</i>

BY JAMES FORTH

SYDNEY, April 4

THE ENGINEERING grip on the Australian National Industries and Comeng Holdings, the rolling stock manufacturer, have finally settled their four-year wrangle over control of the firm's groups Bradken Consolidated.

The solution is that neither company will exercise control—but they will pool their holdings and make a takeover bid for the outstanding capital in Bradken.

ANI started the contest almost two years ago, with \$48,750,000 for Bradken, and the offer was countered by a higher offer from Comeng. Over the next two years both companies made several more takeover attempts, and also bought shares in each other. The end result was that ANI owned with 24 per cent of Bradken and 21.3 per cent of Comeng.

ANI equity accounts for its holdings in both Bradken and Comeng while Comeng equity accounts to Bradken holding 41.4 per cent.

The holding in Union Carriage and Wagon of South Africa.

A uneasy truce has existed for the past two years. When Comeng made an unsuccessful takeover bid for the tractor distributor and steel merchant William Adams—which would have significantly watered down the ANI stake—the ANI Board publicly criticised the move.

ANI and Comeng have now agreed to pool their combined 67 per cent stake in Bradken to exercise control, although they have invited the existing managing director, Mr. W. E. Kendall, to continue in the post. They have also agreed to make an offer to minority holders through a jointly owned company to be formed; however, the decision to exercise control does not depend on the result of the bid, which will be made good, as to the amount of acceptances.

The offer is \$42.75 cash a share, which is slightly higher than the last sale price on the market of \$42.70. It compares with an adjusted value of \$42.40 for the rights of the offer and values Bradken at \$21.25.

Full acceptance of the offer

ANI will raise \$A2.5m. of this by placing 1.85m. shares with a par value of \$A1.35 at the same level as the market price. Comeng will thus effectively only \$A5.74m. and ANI only \$A1.01m.

On ANI's current capital Comeng would increase its equity stake to almost 25 per cent. but there are still no plans to equity convert the holding. If allowance is made for full conversion of ANI's existing convertible securities which can run until 1994, the holding will come back to 21.3 per cent, exactly the level ANI already holds in Comeng.

Both companies have agreed that after the ANI placement Comeng will have an intention of increasing its percentage holding in the other. ANI and Comeng have also agreed, where appropriate, to continue to seek opportunities where they may co-operate in making investments on a basis similar to that proposed for Bradken.

BY OUR OWN CORRESPONDENT

SYDNEY, April 4

BOND Corporation Holdings, the real estate group, reaped the benefits of its consolidation programme of recent years with a return to profits in the December half. The company made a profit of A\$609,000 (SUS\$655,000) for the period, compared with a S\$126m. loss for the first half of 1976-77.

The company has been selling off assets to reduce group borrowings after it experienced liquidity problems in the wake of the 1974 collapse of the property market. The largest sales were the disposal of a major interest in the iron ore group, Robe River, for A\$20m. in May, 1976 and the earlier sale of a 50 per cent interest in the Western Australian resort pro-

ject to the other partner, Tokyu Corporation of Japan.

* * *

REPCO, Australia's largest manufacturer of automotive parts, has lifted its takeover bid slightly for Century Batteries. The Century Board has unanimously agreed to recommend the offer and to accept for their holdings.

Recco made an initial offer last month of \$A2 a share, valuing Century at almost \$A11m. It has now agreed to an increase of 5 cents a share, which will cost the bidder \$A75,000.

Recco started with a holding of just over 7 per cent. of Century and has since raised

to this to almost 11 per cent. through purchases on the share market.

* * *

John Fairfax, major newspaper, television and publishing group, lifted its profit almost 10 per cent in the December half-year, despite continuing losses by its Sydney newspapers, writes James Eorth from Sydney. Group profit rose from \$1.845.5m. to \$2.049.9m. (\$US\$5.6m.) after tax on a 17 per cent increase in revenue to \$2.097.5m. (\$US\$123.52m.). The interim payment is 8 cents a share on capital increased by a scrip issue — an effective increase of 7 per cent.

BY L. DANIEL

TEL AVIV, April 4

NEW ISSUES of 1.54bn. (\$250m.) were made on the Israeli stock market in the financial year 1977-78, three times the amount raised in 1976-77.

Israeli Deputy Finance Minister Y. Flamin has expressed the hope that the losses suffered by those who bought at the height of the market in 1976-77, and the subsequent sharp fluctuation, would not lead to a reversal of the trend.

At the same time he disclosed that long-term saving by institutional investors has come up to expectations. The total 1.51bn. of new issues in 1977-78 was a source during the first 11 months of fiscal 1977-78, or only 1.550m., less than planned for the whole year.

However, direct sales to the

public accounted for only £1.2bn. less than planned for the whole year. However, direct sales to the public accounted for only £1.2bn. of the total, with the remainder sold to back savings schemes; pension and provident funds; and insurance portfolios. Mr. Flumin urged the banks to consider launching new savings schemes.

DM 150,000,000
5¼% Bond Issue 1978/1990

Interest rate:	5 1/4 % payable annually on 1st April
Issue prices:	98 1/2 %
Life:	12 years maximum
Redemptions:	after 6 years free of redemption through drawings by lot in 2 instalments of DM 15,000,000.-- each, payable on 1st April of each of the years 1985 and 1986 and in 4 instalments of DM 30,000,000.-- each, payable on 1st April of the years 1987 through 1990
Listings:	Frankfurt (Main), Berlin, Düsseldorf, Hamburg, München

Deutsche Bank
Aktiengesellschaft
also for
Berliner Disconto Bank
Aktiengesellschaft

Commerzbank
Aktiengesellschaft
also for
Berliner Commerzbank
Aktiengesellschaft

Bank für Gemeinwirtschaft
Aktiengesellschaft

Berliner Bank
Aktiengesellschaft

Hardy-Stoman Bank GmbH

Saarländische Kreditbank
Aktiengesellschaft

Trinkaus & Burkhardt

Bayerische Hypotheken- und Wechsel-Bank

Berliner Handels- und Frankfurter Bank

Merck, Finck & Co.

Simonbank
Aktiengesellschaft

M. M. Warburg-Brinckmann, Wirtz & Co.

Dresdner Bank
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Sal. Oppenheim Jr. & Cie.

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Westfalenbank
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Banca Commerciale Italiana

Banque de Paris et des Pays-Bas

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Kuwait Investment Company (S.A.K.)

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Swiss Bank Corporation (Overseas) Limited

Bankque Internationale à Luxembourg S.A.

Credit Suisse White Wolf Limited

Union Bank of Switzerland (Securities) Limited

S. G. Warburg & Co. Ltd.

INTL. FINANCIAL AND COMPANY NEWS

EUROMARKETS

Costa Rica seeks Boruco finance

BY HUGH O'SHAUGHNESSY

THE COSTA Rican Government is seeking funds from private banks to complete the financing of the Boruco aluminium project and its associated hydroelectric scheme which will eventually cost more than \$2bn. The smelter is to produce 280,000 tonnes of metal a year.

The hydroelectric scheme is being executed by the Instituto Costarricense de Electricidad (ICE), the state power and telecommunications concern. The Boruco dam scheme is estimated to cost some \$800m, of which the Costa Ricans hope that about a third will be provided by the World Bank, the Inter-American Development Bank and the Central American Bank for Economic Integration and about another third by suppliers' credits.

Further funds are expected to be provided by an oil purchase facility provided by the Venezuelan Government. ICE itself will provide some equity capital and may float a bond issue in the Euromarkets. There remains some \$30m, which ICE hopes to raise from foreign banks. This week ICE signed a \$22.5m. medium term loan for the development of the power potential of the Arenal River.

The Boruco dam will have a planned capacity of 760 MW, four-fifths of which would be devoted to powering the aluminium smelter. Speaking at a presentation in London yesterday Mr. Alex Murray, the ICE executive president, forecast that power would be sold to the smelter at a cost of between 20 and 25 miles per kilowatt/hour (one mill equals one-thousandth of a U.S. dollar).

Mr. Murray claimed that it was possible to site another aluminium smelter in the Caribbean basin where there were already several other similar smelters being planned. The dam and smelter are not expected to be completed until 1986, by which time the international aluminium companies producing metals in the North-Western states of the

U.S. would be having to face new commercial situations. Many long-term contracts for the supply of power to the companies in the States of Oregon and Washington at rates of between 3 and 5 mills would have expired and the companies would have to pay much more for the power without the assurance that this would be provided for them on a continuous basis. This latter factor, he claimed, would oblige them to install their own power generating facilities and at the same time increase the attractiveness of the Boruco scheme.

The smelter itself was likely to be built and run by a consortium headed by Martin Marietta, the U.S. engineering group, which could include European and Japanese investors. He put its cost at nearly \$1.3bn. Details of the deal would be negotiated with Government of President-elect Rodrigo Carazo which takes office in a few weeks' time. Mr. Murray said that Costa Rica was currently harnessing only about 3 per cent of its hydroelectric potential and even by the end of the century it would only be using about 25 per cent. He added that Costa Rica with its tradition of democratic government and political stability was an attractive place for investment, particularly for

companies needing large amounts of electric power. * * * Petroleos Mexicanos (Pemex) is signing its \$1bn. Eurocurrency loan in London today, writes Mary Campbell. The loan has been increased from an originally scheduled \$800m. The formal structure of the loan involves 15 managers, five junior managers, 11 co-managers and 33 other participants, bringing the total number of banks participating in the loan to 63.

CANADIAN Finance Minister Jean Chretien said that the standby credit facility the Government has with Canadian chartered banks is being increased to \$US2.5bn. from \$US1.5bn. "In recent months, the net inflow of capital to Canada, particularly that arising from the foreign borrowing of Canadian provinces, municipalities and corporations, has been low relative to the size of the deficit on current transactions in goods and services," he said. "For seasonal reasons, this deficit is normally much larger in the first several months of the year than in the remainder. . . and under these circumstances, the Government has used a portion of its exchange reserves to add to the net inflows of capital to Canada that finance the deficit in the current account of the balance of payments." Recent borrowing of funds in the U.S. capital market will replenish some of the reserves that have been used in these operations.

The terms include a margin over inter-bank rates of 1 1/2 per cent for a ten-year final maturity.

Kuwait International Investment (KIIC) has placed \$5m. Kuwaiti dinars in promissory notes for the Kuwaiti trading company Vaseet Ahmed Al-Ghanim and Sons. The amount of the issue was raised to KD5.5m. from KD3.75m. originally scheduled because of good demand for the issue. KIIC

The notes are in three tranches, for two years with a coupon of 8 per cent, for three years at 8 1/2 per cent, and four years at 9 per cent. J. Henry Schroder and Co. of Beirut is the joint manager.

The Abu Dhabi Gas Liquefaction Company is raising \$100m. in the form of a two-tranche

floating rate syndicated loan and a \$26m. fixed rate private loan from the National Bank of Abu Dhabi. The proceeds are to go towards the gas liquefaction plant on Das Island.

Of the syndicated loan portion, \$50m. is for eight years. Guaranteed by the Abu Dhabi National Oil Company, it will offer a margin over inter-bank rates of 1 per cent, for two years and 1 1/2 per cent for the remaining six years. The \$25m. tranche is unguaranteed and offers a margin of 1 per cent throughout the seven-year maturity. The management group is not yet complete on this loan but is expected to comprise 10 banks. Lead managers will be the National Bank of Abu Dhabi and Abu Dhabi Investment Company.

International Combustion Australia has obtained a trade credit facility of \$300m. for 12 years from a group of ten international banks headed by Westdeutsche Landesbank, Kreditbank and Credit Commercial de France. The facility will enable the international Combustion to make deferred payment arrangements on four boilers which it is selling to the State of Victoria's Electricity Commission. The boilers, each with an output of 500 megawatts, are for use in the Loy Yang power station project in the Latrobe Valley which is scheduled for commissioning in 1986.

It is understood that the credit facility, which is effectively guaranteed by the State of Victoria, will pay interest at margins over inter-bank rates of 1 per cent for the first two years, 1 1/2 per cent for the next eight years and 1 per cent for the last two years. There is a five year grace period before repayments start and an almost equally long availability period during which the loan will not be fully drawn. The loan was signed on March 13.

The Algerian company Solitex has arranged a \$25m. seven year loan from a group of banks headed by Credit Commercial de France. The spread on the loan, which is guaranteed by Banque Nationale d'Algerie, will be 1 1/2 per cent. Repayments start after 42 months.

Sasebo secures emergency assistance

BY YOKO SHIMADA

SASEBO HEAVY Industries, Japan's eighth largest shipbuilder, has secured emergency assistance from Government as part of its plan to extract itself from financial crisis. The Ministry of Transport and the Ministry of Finance are studying emergency rescue measures, including a moratorium of the repayment of ¥21.4bn. (\$98m.) worth of borrowings at the end of December 1977 from Japan Export and Import Bank and the Japan Development Bank, and the possible suspension of interest payments. The Government also may give top priority to Sasebo in extending orders from the Maritime Safety Agency and the Defence Agency.

Apart from these emergency measures, the Ministry of Finance has revealed that the Government is already extending

loans to Sasebo to bridge its Tokyo to appeal to governmental agencies and Sasebo's major shareholders. Sasebo's financial plight worsened around last autumn, when the company was heavily hit by the higher yen exchange rate. Sasebo's new ship orders were all in the September 1977 term, while there were only two ship orders in the March to September 1977 term. As a result, capacity utilisation has been slashed to 60 per cent of its peak. Under-employed workers (6,800 per cent) and excess capacity have become a heavy burden for the company.

According to the Ministry of Finance, Sasebo requested Dai-ichi Kangyo Bank (its main bank) and Nippon Kokan (its second largest shareholder) to

take more severe rationalisation measures. However, this move has been postponed due to opposition from Kurushima Docks (its main shareholder). Discard among Sasebo's shareholders has left the company in the doldrums in recent months and it was not until last week that the company and DKB went to the Government for help. According to the bank, rationalisation measures should produce ¥6bn. in cost-cutting but the company will still need about ¥10bn. in fiscal 1978 to cover its losses.

So far, the disagreement among shareholders has meant that DKB could not itself pledge to extend loans of this size, since the bank insists on a unanimous guarantee for the company's debts from its major shareholders.

TOKYO, April 4.

SELECTED EURO-DOLLAR BOND PRICES			
MID-DAY INDICATIONS			
Issue	Rate	Offer	Mid
Alcan Australia 8 1/2pc 1988	92 1/2	93	92 1/2
AMEV 8pc 1987	94 1/2	95	94 1/2
Australia 8 1/2pc 1988	94 1/2	95	94 1/2
Australian M. & S. 8 1/2pc 88	97 1/2	98	97 1/2
Bardonia Bank 8pc 1988	94 1/2	95	94 1/2
Bovetier 8pc 1987	94 1/2	95	94 1/2
Can. N. Railway 8pc 1988	94 1/2	95	94 1/2
Credit National 8pc 1988	94 1/2	95	94 1/2
Deutsche 8 1/2pc 1988	94 1/2	95	94 1/2
ECB 8pc 1987	94 1/2	95	94 1/2
ECB 8 1/2pc 1988	94 1/2	95	94 1/2
ECB 8 1/2pc 1989	94 1/2	95	94 1/2
ECB 8 1/2pc 1990	94 1/2	95	94 1/2
ECB 8 1/2pc 1991	94 1/2	95	94 1/2
ECB 8 1/2pc 1992	94 1/2	95	94 1/2
ECB 8 1/2pc 1993	94 1/2	95	94 1/2
ECB 8 1/2pc 1994	94 1/2	95	94 1/2
ECB 8 1/2pc 1995	94 1/2	95	94 1/2
ECB 8 1/2pc 1996	94 1/2	95	94 1/2
ECB 8 1/2pc 1997	94 1/2	95	94 1/2
ECB 8 1/2pc 1998	94 1/2	95	94 1/2
ECB 8 1/2pc 1999	94 1/2	95	94 1/2
ECB 8 1/2pc 2000	94 1/2	95	94 1/2
ECB 8 1/2pc 2001	94 1/2	95	94 1/2
ECB 8 1/2pc 2002	94 1/2	95	94 1/2
ECB 8 1/2pc 2003	94 1/2	95	94 1/2
ECB 8 1/2pc 2004	94 1/2	95	94 1/2
ECB 8 1/2pc 2005	94 1/2	95	94 1/2
ECB 8 1/2pc 2006	94 1/2	95	94 1/2
ECB 8 1/2pc 2007	94 1/2	95	94 1/2
ECB 8 1/2pc 2008	94 1/2	95	94 1/2
ECB 8 1/2pc 2009	94 1/2	95	94 1/2
ECB 8 1/2pc 2010	94 1/2	95	94 1/2
ECB 8 1/2pc 2011	94 1/2	95	94 1/2
ECB 8 1/2pc 2012	94 1/2	95	94 1/2
ECB 8 1/2pc 2013	94 1/2	95	94 1/2
ECB 8 1/2pc 2014	94 1/2	95	94 1/2
ECB 8 1/2pc 2015	94 1/2	95	94 1/2
ECB 8 1/2pc 2016	94 1/2	95	94 1/2
ECB 8 1/2pc 2017	94 1/2	95	94 1/2
ECB 8 1/2pc 2018	94 1/2	95	94 1/2
ECB 8 1/2pc 2019	94 1/2	95	94 1/2
ECB 8 1/2pc 2020	94 1/2	95	94 1/2
ECB 8 1/2pc 2021	94 1/2	95	94 1/2
ECB 8 1/2pc 2022	94 1/2	95	94 1/2
ECB 8 1/2pc 2023	94 1/2	95	94 1/2
ECB 8 1/2pc 2024	94 1/2	95	94 1/2
ECB 8 1/2pc 2025	94 1/2	95	94 1/2
ECB 8 1/2pc 2026	94 1/2	95	94 1/2
ECB 8 1/2pc 2027	94 1/2	95	94 1/2
ECB 8 1/2pc 2028	94 1/2	95	94 1/2
ECB 8 1/2pc 2029	94 1/2	95	94 1/2
ECB 8 1/2pc 2030	94 1/2	95	94 1/2
ECB 8 1/2pc 2031	94 1/2	95	94 1/2
ECB 8 1/2pc 2032	94 1/2	95	94 1/2
ECB 8 1/2pc 2033	94 1/2	95	94 1/2
ECB 8 1/2pc 2034	94 1/2	95	94 1/2
ECB 8 1/2pc 2035	94 1/2	95	94 1/2
ECB 8 1/2pc 2036	94 1/2	95	94 1/2
ECB 8 1/2pc 2037	94 1/2	95	94 1/2
ECB 8 1/2pc 2038	94 1/2	95	94 1/2
ECB 8 1/2pc 2039	94 1/2	95	94 1/2
ECB 8 1/2pc 2040	94 1/2	95	94 1/2
ECB 8 1/2pc 2041	94 1/2	95	94 1/2
ECB 8 1/2pc 2042	94 1/2	95	94 1/2
ECB 8 1/2pc 2043	94 1/2	95	94 1/2
ECB 8 1/2pc 2044	94 1/2	95	94 1/2
ECB 8 1/2pc 2045	94 1/2	95	94 1/2
ECB 8 1/2pc 2046	94 1/2	95	94 1/2
ECB 8 1/2pc 2047	94 1/2	95	94 1/2
ECB 8 1/2pc 2048	94 1/2	95	94 1/2
ECB 8 1/2pc 2049	94 1/2	95	94 1/2
ECB 8 1/2pc 2050	94 1/2	95	94 1/2
ECB 8 1/2pc 2051	94 1/2	95	94 1/2
ECB 8 1/2pc 2052	94 1/2	95	94 1/2
ECB 8 1/2pc 2053	94 1/2	95	94 1/2
ECB 8 1/2pc 2054	94 1/2	95	94 1/2
ECB 8 1/2pc 2055	94 1/2	95	94 1/2
ECB 8 1/2pc 2056	94 1/2	95	94 1/2
ECB 8 1/2pc 2057	94 1/2	95	94 1/2
ECB 8 1/2pc 2058	94 1/2	95	94 1/2
ECB 8 1/2pc 2059	94 1/2	95	94 1/2
ECB 8 1/2pc 2060	94 1/2	95	94 1/2
ECB 8 1/2pc 2061	94 1/2	95	94 1/2
ECB 8 1/2pc 2062	94 1/2	95	94 1/2
ECB 8 1/2pc 2063	94 1/2	95	94 1/2
ECB 8 1/2pc 2064	94 1/2	95	94 1/2
ECB 8 1/2pc 2065	94 1/2	95	94 1/2
ECB 8 1/2pc 2066	94 1/2	95	94 1/2
ECB 8 1/2pc 2067	94 1/2	95	94 1/2
ECB 8 1/2pc 2068	94 1/2	95	94 1/2
ECB 8 1/2pc 2069	94 1/2	95	94 1/2
ECB 8 1/2pc 2070	94 1/2	95	94 1/2
ECB 8 1/2pc 2071	94 1/2	95	94 1/2
ECB 8 1/2pc 2072	94 1/2	95	94 1/2
ECB 8 1/2pc 2073	94 1/2	95	94 1/2
ECB 8 1/2pc 2074	94 1/2	95	94 1/2
ECB 8 1/2pc 2075	94 1/2	95	94 1/2
ECB 8 1/2pc 2076	94 1/2	95	94 1/2
ECB 8 1/2pc 2077	94 1/2	95	94 1/2
ECB 8 1/2pc 2078	94 1/2	95	94 1/2
ECB 8 1/2pc 2079	94 1/2	95	94 1/2
ECB 8 1/2pc 2080	94 1/2	95	94 1/2
ECB 8 1/2pc 2081	94 1/2	95	94 1/2
ECB 8 1/2pc 2082	94 1/2	95	94 1/2
ECB 8 1/2pc 2083	94 1/2	95	94 1/2
ECB 8 1/2pc 2084	94 1/2	95	94 1/2
ECB 8 1/2pc 2085	94 1/2	95	94 1/2
ECB 8 1/2pc 2086	94 1/2	95	94 1/2
ECB 8 1/2pc 2087	94 1/2	95	94 1/2
ECB 8 1/2pc 2088	94 1/2	95	94 1/2
ECB 8 1/2pc 2089	94 1/2	95	94 1/2
ECB 8 1/2pc 2090	94 1/2	95	94 1/2
ECB 8 1/2pc 2091	94 1/2	95	94 1/2
ECB 8 1/2pc 2092	94 1/2	95	94 1/2
ECB 8 1/2pc 2093	94 1/2	95	94 1/2
ECB 8 1/2pc 2094	94 1/2	95	94 1/2
ECB 8 1/2pc 2095	94 1/2	95	94 1/2
ECB 8 1/2pc 2096	94 1/2	95	94 1/2
ECB 8 1/2pc 2097	94 1/2	95	94 1/2
ECB 8 1/2pc 2098	94 1/2	95	94 1/2
ECB 8 1/2pc 2099	94 1/2	95	94 1/2
ECB 8 1/2pc 2100	94 1/2	95	94 1/2
ECB 8 1/2pc 2101	94 1/2	95	94 1/2
ECB 8 1/2pc 2102	94 1/2	95	94 1/2
ECB 8 1/2pc 2103	94 1/2	95	94 1/2
ECB 8 1/2pc 2104	94 1/2	95	94 1/2
ECB 8 1/2pc 2105	94 1/2	95	94 1/2
ECB 8 1/2pc 2106	94 1/2	95	94 1/2
ECB 8 1/2pc 2107	94 1/2	95	94 1/2
ECB 8 1/2pc 2108	94 1/2	95	94 1/2
ECB 8 1/2pc 2109	94 1/2	95	94 1/2
ECB 8 1/2pc 2110	94 1/2	95	94 1/2
ECB 8 1/2pc 2111	94 1/2	95	94 1/2
ECB 8 1/2pc 2112	94 1/2	95	94 1/2
ECB 8 1/2pc 2113	94 1/2	95	94 1/2
ECB 8 1/2pc 2114	94 1/2	95	94 1/2
ECB 8 1/2pc 2115	94 1/2	95	94 1/2
ECB 8 1/2pc 2116	94 1/2	95	94 1/2
ECB 8 1/2pc 2117	94 1/2	95	94 1/2
ECB 8 1/2pc 2118	94 1/2	95	94 1/2
ECB 8 1/2pc 2119	94 1/2	95	94 1/2
ECB 8 1/2pc 2120	94 1/2	95	94 1/2
ECB 8 1/2pc 2121	94 1/2	95	94 1/2
ECB 8 1/2pc 2122	94 1/2	95	94 1/2
ECB 8 1/2pc 2123	94 1/2	95	94 1/2
ECB 8 1/2pc 2124	94 1/2	95	94 1/2
ECB 8 1/2pc 2125	94 1/2	95	94 1/2
ECB 8 1/2pc 2126	94 1/2	95	94 1/2
ECB 8 1/2pc 2127	94 1/2	95	94 1/2
ECB 8 1/2pc 2128	94 1/2	95	94 1/2
ECB 8 1/2pc 2129	94 1/2	95	94 1/2
ECB 8 1/2pc 2130	94 1/2	95	94 1/2
ECB 8 1/2pc 2131	94 1/2	95	94 1/2
ECB 8 1/2pc 2132	94 1/2	95	94 1/2
ECB 8 1/2pc 2133	94 1/2	95	94 1/2
ECB 8 1/2pc 2134	94 1/2	95	94 1/2
ECB 8 1/2pc 2135	94 1/2	95	94 1/2
ECB 8 1/2pc 2136	94 1/2	95	94 1/2
ECB 8 1/2pc 2137	94 1/2	95	94 1/2
ECB 8 1/2pc 2138	94 1/2	95	94 1/2
ECB 8 1/2pc 2139	94 1/2	95	94 1/2
ECB 8 1/2pc 2140	94 1/2	95	94 1/2
ECB 8 1/2pc 2141	94 1/2	95	94 1/2
ECB 8 1/2pc 2142	94 1/2	95	94 1/2
ECB 8 1/2pc 2143	94 1/2	95	94 1/2
ECB 8 1/2pc 2144	94 1/2	9	

FARMING AND RURAL MATERIALS

Bad weather cuts Indian tea crops

By Our Own Correspondent

CALCUTTA, April 4

WEATHER HAS been unfavourable for tea growing in North East India from the beginning of this year resulting in less production according to Mr. N. P. Tania, senior vice-president of the Tea Association of India.

A prolonged spell of drought has hit the crop in Darjeeling, Dooars, Terai and Cochar districts badly and in the last week of March Darjeeling, Dooars and Terai areas were hit by a severe hailstorm doing further damage.

Mr. Tania says that first flush teas are the prime crops in these districts and are in good demand abroad. At least 90 per cent of the Darjeeling crop is exported.

The adverse crop reports together with a holdup of 11m. kilos in a local warehouse where a go-slow for workers has been going on for several weeks have forced domestic tea prices higher. The "bullishness" is reflected in the firming up of prices at all auctions.

Russians gain New Zealand fishing rights

WELLINGTON, April 4

THE SOVIET UNION became the second nation to gain fishing rights in New Zealand's 200-mile economic zone with signing here of a formal agreement by Mr. Brian Talbot, Foreign Affairs Minister, and Mr. Alexander Ishkov, Soviet Fisheries Minister, reports AP-Dow Jones.

The Russians recognised New Zealand's jurisdiction over the zone and Mr. Talbot said he hoped a quota would be fixed within the next few weeks on how much fish might legally be caught.

Mr. Ishkov said at a signing ceremony he hoped the agreement would lead to wider co-operation in many fields.

In Ottawa, meanwhile, a new fisheries agreement has been reached between Canada and Japan.

The agreement, which must still receive formal Government approval in Ottawa and Tokyo, sets out the conditions for commercial Japanese fishing within Canada's new 200-mile zone.

Negotiations are to resume in May with the EEC, the last major group of countries left to sign a fishing treaty, with Canada since Ottawa declared the 200-mile zone early last year.

New hopes of extension to U.K. butter subsidy

BY MARGARET VAN HATTEN

LUXEMBOURG, April 4

MR. VINN GUNDELACH, EEC Agriculture Commissioner, announced during the annual farm price review talks here today that he will present new proposals for some form of U.K. butter subsidy scheme. These are expected before the next farm council meeting on April 24.

In the past, Mr. Gundelach has firmly opposed suggestions that the U.K. subsidy be extended beyond the end of this year, or that a new British subsidy be introduced.

But Mr. John Silkin, the U.K. Minister, said after the talks that he believed Mr. Gundelach might be considering an extension after all, and that a Community-wide subsidy to counter the trend of falling consumption was a possibility.

This falling trend clearly worries the bigger butter exporters in the EEC. Ireland and Denmark said today they want the U.K. subsidy to continue. Mr. Silkin said, and sources from several national delegations suggested today that Germany and the Netherlands are no longer averse to the idea.

Last year EEC farm ministers agreed that the subsidy, intro-

duced in April, 1977, should be phased out by the end of this year. But Mr. Silkin claims that this would lead to a 40 per cent rise in U.K. retail prices, in turn would cause a 60,000 tonne drop in U.K. consumption over 12 months.

Earlier, at the talks, the Ministers referred to their proposals on the long-standing dispute over imports of Cyprus potatoes. If accepted, would clear the way for an EEC-Cyprus trade agreement.

The agreement, which has been held up on this issue for months, provides for substantial imports of sherry, citrus fruits and new potatoes to the Community (mainly Britain).

Until now it has been held up by Italy, which fears competition from Cyprus for its own potato exports to West Germany. Today's compromise stipulates that the Cyprus potatoes should be shipped directly to the U.K. only.

Solution of this problem does not, however, clear the way for negotiations of a comprehensive regime which is still being

blocked by Italy. Mr. Poul Dalsager, president for the Council, today ruled out the possibility of this being settled in the Farm Price Review, or indeed before July.

Italy is refusing to negotiate unless it receives direct fixed subsidies on an acreage basis, such as its citrus producers receive for lemons.

Most other members flatly reject this, but are prepared to consider a proposal put forward today for deficiency payments, which would make up the difference between the market price and a guaranteed minimum price.

British officials indicated that in the absence of any EEC potato regime, Britain intends to continue with its ban on potato imports, now the subject of Commission inquiries, despite strong hints that Mr. Gundelach is under mounting pressure from Germany to refer the matter to the European Court of Justice.

Should the ban be found illegal this would probably be too late to affect this year's crop. But it could seriously disrupt British price support arrangements for the 1978-79 crop.

Sugar hit by Soviet reselling

By Our Commodities Staff

WORLD SUGAR prices fell yesterday in response to reports that Russia had resold substantial amounts of white sugar bought earlier in the season to traditional outlets.

In the morning the London daily raw sugar price was down 20 to 2100 a tonne and on the futures market August delivery price closed 22.675 lower at 2106.475 a tonne.

Russia has scaled down its re-export trade in white sugar sharply over the past few years and claims that its purchases on the world market earlier this year were destined for re-export were generally disregarded at the time.

Yesterday's report, from Moscow, had prompted a re-appraisal of the country's own consumption trend, hence the "bearish" effect on the market.

In fact Russia has always maintained a substantial re-export trade, though much lower than in the late 1960s when the trade sometimes exceeded 1m. tonnes. In recent years re-exports of white sugar have averaged 60-70,000 tonnes but the Tass report says the total will be about 100,000 tonnes this year.

The market was also depressed yesterday by news that Peru was offering 32,000 tonnes of raw sugar for sale.

Meanwhile the International Association of Sugar States has estimated 1977-78 West European member countries sugar production at 13,955,000 tonnes, compared with 12,124,000 tonnes in 1976-77.

Cocoa decline continues

By Our Commodities Staff

THE DECLINE in London cocoa futures values continued yesterday with the day's quotation ending the day 256 down at 21,591 a tonne.

Trading was thin in the morning but nearly prices quickly established a 540 permissible limit decline. Most traders could find no reason for the fall but some said it might be due to the circulation of a few Ghana current crop shipment declarations.

Bearish market sentiment based on downward break indications following the breaking of Carter's proposal to limit tax limited partnerships of more than 15 partners as corporations

TIMBER MARKET

Currency changes the main worry

BY A SPECIAL CORRESPONDENT

SHORT-TERM buying, and the belief that there will be little change in world price levels, are the two tenets on which U.K. softwood importers are basing their operations this year.

With plenty of wood available in all our major supplying countries, importers' minds are set on availability. What is giving cause for anxiety are currency movements and the chance that interest rates may start to rise again.

While there is evidence that the Swedish krona is still overvalued at present levels, it has performed very much better than sterling in recent weeks. So although world softwood prices may remain steady in the currencies of exporting countries, if the pound weakens then wood must become more expensive on the U.K. domestic market.

The Soviet Union is one of the major supplying countries from which the importers cannot buy in the short term. Russia's first schedule of softwood for 1978's shipment was circulated in the first week of February for delivery from around June onwards at prices which were about 20 per cent down on their peak offer, which appeared in April 1977.

nominal quantity was 450,000 cubic metres, but the response from importers was good: it is reckoned that about a million cubic metres have so far been sold and the Russian agents are still selling against the schedule. The Russian official on timber in Britain has recently been in Moscow where he was no doubt consulting on future moves.

But it is thought that Exporters' the Soviet sales organisation, may well go on selling on the early schedule terms for several weeks yet and then perhaps come out with

different specifications while maintaining the price levels. Their target is thought to be sales of about 1.4m. cu.m. this year.

The U.K. market is used to having the early months of each year dominated by the Russian schedules. However, this year, should be feeling particularly gratified to have sold a million cubic metres worth about 45m. in under two months on a sluggish market, it is no mean feat.

It reflects the Russian's willingness to listen to the importers' request for a currency clause which would protect them from violent fluctuations and the ingenuity of the U.K. agents, working with Exporters, in devising it.

The importers' fear was that the Swedish krona, which was down on those markets and leave them with a surplus of expensive Soviet wood. The currency clause links the Russian prices with the Swedish krona at a parity of Kr.9 to the pound.

On each side are five bands and if the krona moves through an agreed percentage. No one can say for certain where the krona will be when shipment starts in mid-summer, but at present it has hardened to 8.80. If this index is held then under the clause prices would rise by 5 per cent.

Sales of Russian softwood have been made to a broad spectrum of importers with the smaller and medium-sized companies well involved, which always makes for a healthier market.

On the re-selling side, the first few months of the year were expected to be quiet, and so they have been with the construction industry hamstrung by the terrible weather. Ahead of the official figures, the National House Building Council has estimated the February housing starts in the private sector at 12,000.

This is a very high figure for February—back to the level of the boom years and bears out the trade's forecast of better timber sales in the second half of this year when houses start reaching the timber consuming stage of construction.

Trade statistics for 1977 show apparent consumption (movement out of importers' hands) at 6.37m. cu.m.—12 per cent down on 1976 and the lowest annual figure for the past 25 years. The import figure was 6.84m. cu.m. and, despite the fall in prices over the past five months of the year, the cost was a record 523m.

Four countries—Sweden, Canada, Russia and Finland—accounted for 82 per cent of our supplies and their individual share ranged from Sweden's 23 per cent to Finland's 17 per cent.

One of the few countries to increase its sales was Portugal, which took 1.5m. cu.m. of supplies pallet and box making timber and this is an indication that our British grown softwood which also aims largely at these lower quality markets will have competition as its availability grows.

The stock at the end of the year stood at just over 2m. cu.m.—about normal, but it could be argued on the high side in relation to the sluggish consumption.

Forecasts for 1978 are for apparent consumption at the equivalent figure of 6.5m. cu.m. and imports about the same. At the end of the first quarter they look about right.

Further boost for zinc prices

BY JOHN EDWARDS, COMMODITIES EDITOR

ZINC PRICES advanced strongly again on the London Metal Exchange yesterday following news of a formal agreement by Mr. Brian Talbot, Foreign Affairs Minister, and Mr. Alexander Ishkov, Soviet Fisheries Minister, reports AP-Dow Jones.

The Russians recognised New Zealand's jurisdiction over the zone and Mr. Talbot said he hoped a quota would be fixed within the next few weeks on how much fish might legally be caught.

Mr. Ishkov said at a signing ceremony he hoped the agreement would lead to wider co-operation in many fields.

In Ottawa, meanwhile, a new fisheries agreement has been reached between Canada and Japan.

The agreement, which must still receive formal Government approval in Ottawa and Tokyo, sets out the conditions for commercial Japanese fishing within Canada's new 200-mile zone.

Negotiations are to resume in May with the EEC, the last major group of countries left to sign a fishing treaty, with Canada since Ottawa declared the 200-mile zone early last year.

plants are already on strike in support of a wage claim. At the same time, strike action has begun at the Vieille Montagne zinc dust producing plant at Flone, and notice of strike action at its zinc plant is also understood to have been served for next Monday.

With the Mayon smelter already on strike, this means that next week there could be a complete shutdown of Belgian zinc production.

Last year Belgian slab zinc output was nearly 280,000 tonnes—the second highest contributor to West European production of

around 1.5m. tonnes.

A. M. and S. Europe also contracted to buy zinc ahead with plans to close its zinc plant at Avonmouth for about nine weeks for major repairs and overhaul.

It said the timing of the closure, which is being extended beyond normal duration, is appropriate in view of the depressed level of prices and will help reduce stocks to more normal levels.

Preussag, the big West German producer, announced yesterday it was cutting output to 12,000 tonnes a month, which is calculated to be about 68 per cent of its capacity of its two plants estimated at around 210,000 tonnes a year.

These further cuts, coming on top of Asarco's decision in the U.S. to reduce output at its Copper Christ plant by 50 per cent, suggest that zinc supply is being cut, but mainly from speculators, encouraged by rumours that the European producer price might be raised from \$550 to \$600 a tonne.

Trade sources were more dubious, although one dealer commented: "They might be mad enough to try, given past experience."

Tin below pact 'ceiling'

TIN PRICES fell below the International Tin Agreement "ceiling" of \$21,500 a picul for the first time since January, 1977, on the Pexang market on Monday night. A decline of \$113 cut the Straits tin price to \$21,489 a picul.

The breakthrough, back into the Tin Agreement's price range, had little impact, however, on the London market yesterday. The

standard grade cash tin price closed 256 down at 25,690 a tonne.

But this was basically due to the general downtrend in metal prices following the overnight trend in New York when gold values tumbled on an announcement that Switzerland planned to end gold backing for its banknotes.

Copper, lead and silver values also lost ground.

COMMODITY MARKET REPORTS AND PRICES

BASE METALS

COPPER—Market on the London Metal Exchange with the market underlain by the overvalued performance of New York. Trade activity helped to depress forward metal from 27 to 280 before industrial buying came in. In the afternoon the price fell to 27.00. The market was lower than at 27.00. Turnover 25,220 tonnes.

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Gilts unsettled late but equities move ahead

Share index up 5.3 at 467.8—Stores in demand

record, base rates and values and commitment charges are published in the
is available from the Publishers, the Financial Times, Bracken House, 1
7 post. 22p.

OFFSHORE AND OVERSEAS FUNDS

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BUILDING SOCIETY INTEREST RATES

<p>GREENWICH (DL-558 3222)</p> <p>251, Greenwich High Road, Greenwich SE18 6NL, Deposit Rate 5.75, Share Accounts 6.10, Sub/p. Shares 7.50, Term Shares 2 yrs. fixed 1 over Share Accounts.</p>	<p>LONDON GOLDBAWK (DL-495 4326)</p> <p>12/17, Christchurch High Road, London W4 2NG, Deposit Rate 5.75 Share Accounts 6.25, Sub/p. Shares 7.50.</p>
<p>HEARTS OF OAK AND ENFIELD (DL-505 5646)</p> <p>Walford House, 201, Hartford Road, Parsloes E20 5JL, Deposit Rate 5.50, Share Accounts 6.50, Sub/p. Shares 7.50, Term Shares 6.75 fixed 1.25 over Share Accounts. * With effect from April 1.</p>	<p>MORNINGTON (DL-357 2971)</p> <p>128, Kenilworth Town Road, London NW5 2BT, Deposit Rate 5.25*, Share Accounts 6.25.</p>

INDUSTRIALS—Continued	Stock	Price	+/-	Div.	Yield	Cov.	V.M.	P/E	Mkt. Cap.									
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Components																		
Garages and Distributors																		
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